

Milestone Maths Placement Tests

WHO SHOULD USE THIS TEST?

If you have a child who is at least 5.5 years old and has never had any formal mathematical training, you may use this test to determine if they are ready to begin level B or if they should start with level A.

If you have an older child, you should use these tests to place your child accurately in the Milestone Maths program. Since Milestone Maths is a mastery program, accurate placement is essential for success.

WHO SHOULD NOT USE THIS TEST?

If your child is less than 5.5 years old, you do not need to test. You should simply begin the Milestone Maths program at level A.

If your child has just completed a level of Milestone Maths, there is no need to complete this test, but you may do so if you would like to track their mathematical progress and to ensure that they have fully mastered the material in the level they have just completed, before moving on.

ADMINISTERING THE TESTS

For young children (< 6 years old) begin with Test A and follow the directions at the end of each test.

For older children, begin with Test B and follow the directions at the end of each test. Older children may take several days to complete the test. Do not try to do too much in one day as fatigue will affect the results. We suggest that you spend no more than half an hour per day on these tests.

There is no time limit for the tests, but you should watch your child complete the basic fact questions and ensure that they are not overly hesitating to “count out” the answers.

As this is a maths test, and not a reading test, it is OK if you need to read the questions to your student. However, you should not help them to answer any of the questions as this will defeat the purpose of the test. If they beg you to help, just say to your child, “We only want to find out what you can do on your own so we know which book to start at. Just try your best, and leave a blank if you really don’t know how to do a question.”

Test A

Note to parent: This test is to determine if your child is ready to begin level B. The child should be at least 5.5 years of age when administering this test. It is assumed that the child cannot read so all instructions should be read by the parent.

1. Count to ten.

2 Tell me what the following numbers are (you can point to them at random or in the order given):

2

4

1

8

3

6

5

7

9

PLACEMENT INSTRUCTIONS

If your child easily performed the above activities AND they are at least 5.5 years old, they are ready for level B and should begin at level B1.

Note: Delaying until the child is 6 years old is a good idea as it will allow their hand muscles to strengthen and develop for proper writing. If you would like to do this, consider starting with level A.

Test B1

Note: it is OK for the parent to read the instructions to the student, but you should not 'help' the child or teach them at all.

1. Write the numbers 0-10 on the number line in the proper place:



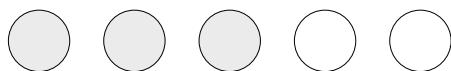
2. Count **up** from the following numbers:

2, ____, ____, ____ 7, ____, ____, ____ 4, ____, ____

3. Count **down** from the following numbers:

3, ____, ____, ____ 9, ____, ____, ____ 5, ____, ____

4. Write a sum that matches the picture:



5. Draw a picture that matches the sum:

$$3 + 1 = 4$$

Test B1 Answers

Note: it is OK for the parent to read the instructions to the student, but you should not 'help' the child or teach them at all.

1. Write the numbers 0-10 on the number line in the proper place:



10 points. Deduct one point for each error.

2. Count **up** from the following numbers:

2, 3, 4, 5 7, 8, 9, 10 4, 5, 6

8 points. Deduct one point for each error.

3. Count **down** from the following numbers:

3, 2, 1, 0 9, 8, 7, 6 5, 4, 3

8 points. Deduct one point for each error.

4. Write a sum that matches the picture:

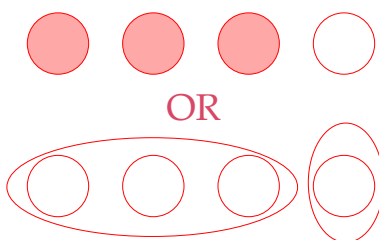


$3 + 2 = 5$ (or $2 + 3 = 5$)

1 point.

5. Draw a picture that matches the sum:

$$3 + 1 = 4$$



1 point.

PLACEMENT INSTRUCTIONS

Less than 23 points: Begin at Level B1

23 points or more: Proceed to Test B2

Test B2

Note: it is OK for the parent to read the instructions to the student, but you should not 'help' the child or teach them at all.

1. Write the numbers 10-20 on the number line in the proper place:



2. Count **up** from the following numbers:

9, _____, _____, _____ 16, _____, _____, _____ 14, _____, _____

3. Circle the **smallest** number in each set:

10	19	12		16	13	14
----	----	----	--	----	----	----

3. Write the sums:

$3 + 7 = \underline{\hspace{2cm}}$ $6 + 4 = \underline{\hspace{2cm}}$ $2 + 8 = \underline{\hspace{2cm}}$

$1 + 1 = \underline{\hspace{2cm}}$ $7 + 3 = \underline{\hspace{2cm}}$ $3 + 1 = \underline{\hspace{2cm}}$

$1 + 9 = \underline{\hspace{2cm}}$ $1 + 4 = \underline{\hspace{2cm}}$ $2 + 2 = \underline{\hspace{2cm}}$

$4 + 6 = \underline{\hspace{2cm}}$ $8 + 2 = \underline{\hspace{2cm}}$ $2 + 3 = \underline{\hspace{2cm}}$

$3 + 2 = \underline{\hspace{2cm}}$ $5 + 5 = \underline{\hspace{2cm}}$ $1 + 2 = \underline{\hspace{2cm}}$

Test B2 Answers

Note: it is OK for the parent to read the instructions to the student, but you should not 'help' the child or teach them at all.

1. Write the numbers 10-20 on the number line in the proper place:



10 points. Deduct one point for each error.

2. Count **up** from the following numbers:

9, 10, 11, 12 16, 17, 18, 19 14, 15, 16

8 points. Deduct one point for each error.

3. Circle the **smallest** number in each set:

10 19 12 | 16 13 14

8 points.

3. Write the sums:

$$3 + 7 = \underline{10} \qquad 6 + 4 = \underline{10} \qquad 2 + 8 = \underline{10}$$

$$1 + 1 = \underline{2} \qquad 7 + 3 = \underline{10} \qquad 3 + 1 = \underline{4}$$

$$1 + 9 = \underline{10} \qquad 1 + 4 = \underline{5} \qquad 2 + 2 = \underline{4}$$

$$4 + 6 = \underline{10} \qquad 8 + 2 = \underline{10} \qquad 2 + 3 = \underline{5}$$

$$3 + 2 = \underline{5} \qquad 5 + 5 = \underline{10} \qquad 1 + 2 = \underline{3}$$

15 points. Deduct one point for each error.

PLACEMENT INSTRUCTIONS

Less than 29 points: Begin at Level B2

23 points or more: Proceed to Test B3

Note: the child should be able to answer the sums in exercise 3 without counting on fingers.

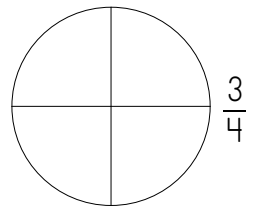
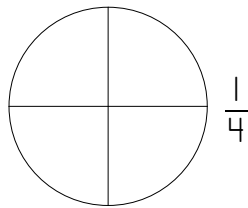
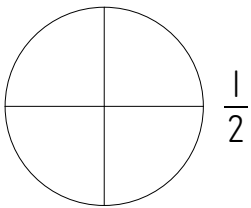
Test B3

Note: it is OK for the parent to read the instructions to the student, but you should not 'help' the child or teach them at all.

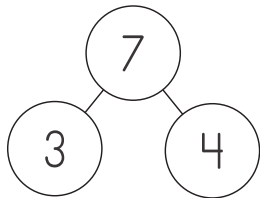
1. Write the numbers 70-80 on the number line in the proper place:



2. Colour the fraction of the shape indicated.



3. Count by **tens**. Start at **10**.



5. Find the sums.

$4 + 5 = \underline{\quad}$

$1 + 4 = \underline{\quad}$

$2 + 1 = \underline{\quad}$

$1 + 7 = \underline{\quad}$

$1 + 6 = \underline{\quad}$

$8 + 1 = \underline{\quad}$

$1 + 1 = \underline{\quad}$

$3 + 5 = \underline{\quad}$

$3 + 1 = \underline{\quad}$

$5 + 5 = \underline{\quad}$

$1 + 3 = \underline{\quad}$

$6 + 1 = \underline{\quad}$

$4 + 1 = \underline{\quad}$

$1 + 2 = \underline{\quad}$

$2 + 8 = \underline{\quad}$

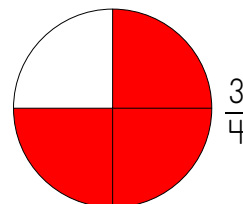
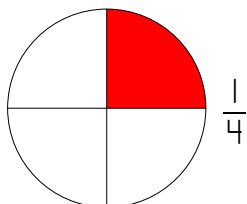
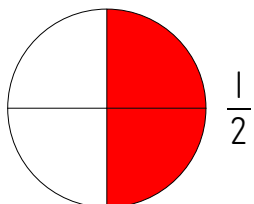
Test B3 Answers

1. Write the numbers 70-80 on the number line in the proper place:



10 points. Deduct one point for each error.

2. Colour the fraction of the shape indicated.



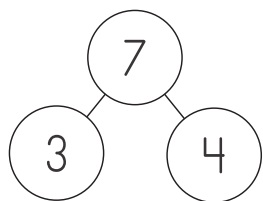
6 points (2 points each).

3. Count by **tens**. Start at **10** and stop at **100**.

10 20 30 40 50 60 70 80 90 100

10 points. Deduct one point for each error.

3. Write the four equations (fact family) represented by the number bond.



$$3 + 4 = 7$$

$$7 - 3 = 4$$

$$4 + 3 = 7$$

$$7 - 4 = 3$$

8 points. (2 points each) Order is not important.

5. Find the sums.

$$4 + 5 = \underline{9}$$

$$5 + 4 = \underline{9}$$

$$7 + 2 = \underline{9}$$

$$1 + 7 = \underline{8}$$

$$1 + 6 = \underline{7}$$

$$8 + 1 = \underline{9}$$

$$6 + 3 = \underline{9}$$

$$3 + 5 = \underline{8}$$

$$3 + 1 = \underline{4}$$

$$5 + 5 = \underline{10}$$

$$4 + 4 = \underline{8}$$

$$6 + 1 = \underline{7}$$

$$2 + 7 = \underline{9}$$

$$6 + 2 = \underline{8}$$

$$2 + 8 = \underline{10}$$

15 points. Deduct one point for each error or hesitation.

PLACEMENT INSTRUCTIONS

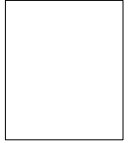
Less than 41 points: Begin at Level B3

41 points or more: Proceed to Test B4

Test B4

Note: it is OK for the parent to read the instructions to the student, but you should not 'help' the child or teach them at all.

1. Measure the bars to the nearest centimetre:



2. Fill in the blanks.

$\frac{1}{2}$ of 10 is _____ $\frac{1}{2}$ of 6 is _____ $\frac{1}{2}$ of 8 is _____ $\frac{1}{2}$ of 4 is _____

3. Find the sums.

$5 + 1 = \underline{\hspace{2cm}}$

$5 + 2 = \underline{\hspace{2cm}}$

$2 + 7 = \underline{\hspace{2cm}}$

$3 + 3 = \underline{\hspace{2cm}}$

$4 + 3 = \underline{\hspace{2cm}}$

$8 + 2 = \underline{\hspace{2cm}}$

$3 + 4 = \underline{\hspace{2cm}}$

$6 + 2 = \underline{\hspace{2cm}}$

$4 + 4 = \underline{\hspace{2cm}}$

$1 + 9 = \underline{\hspace{2cm}}$

$2 + 4 = \underline{\hspace{2cm}}$

$6 + 4 = \underline{\hspace{2cm}}$

$3 + 1 = \underline{\hspace{2cm}}$

$4 + 2 = \underline{\hspace{2cm}}$

$8 + 1 = \underline{\hspace{2cm}}$

$6 + 1 = \underline{\hspace{2cm}}$

$7 + 3 = \underline{\hspace{2cm}}$

$1 + 6 = \underline{\hspace{2cm}}$

$2 + 3 = \underline{\hspace{2cm}}$

$1 + 8 = \underline{\hspace{2cm}}$

$3 + 6 = \underline{\hspace{2cm}}$

$4 + 6 = \underline{\hspace{2cm}}$

$6 + 3 = \underline{\hspace{2cm}}$

$5 + 3 = \underline{\hspace{2cm}}$

Test B4

Note: it is OK for the parent to read the instructions to the student, but you should not 'help' the child or teach them at all.

1. Measure the bars to the nearest centimetre:



4 points (2 points each).

2. Fill in the blanks.

$$\frac{1}{2} \text{ of } 10 \text{ is } \underline{5} \quad \frac{1}{2} \text{ of } 6 \text{ is } \underline{3} \quad \frac{1}{2} \text{ of } 8 \text{ is } \underline{4} \quad \frac{1}{2} \text{ of } 4 \text{ is } \underline{2}$$

8 points (2 points each).

3. Find the sums.

$$5 + 1 = \underline{6} \quad 5 + 2 = \underline{7} \quad 2 + 7 = \underline{9}$$

$$3 + 3 = \underline{6} \quad 4 + 3 = \underline{7} \quad 8 + 2 = \underline{10}$$

$$3 + 4 = \underline{7} \quad 6 + 2 = \underline{8} \quad 4 + 4 = \underline{8}$$

$$1 + 9 = \underline{10} \quad 2 + 4 = \underline{6} \quad 6 + 4 = \underline{10}$$

$$3 + 1 = \underline{4} \quad 4 + 2 = \underline{6} \quad 8 + 1 = \underline{9}$$

$$6 + 1 = \underline{7} \quad 7 + 3 = \underline{10} \quad 1 + 6 = \underline{7}$$

$$2 + 3 = \underline{5} \quad 1 + 8 = \underline{9} \quad 3 + 6 = \underline{9}$$

$$4 + 6 = \underline{10} \quad 6 + 3 = \underline{9} \quad 5 + 3 = \underline{8}$$

24 points. Deduct one point for each error or hesitation.

PLACEMENT INSTRUCTIONS

Less than 30 points: Begin at Level B4

30 points or more: Proceed to Test C1

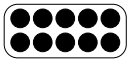
Test C1

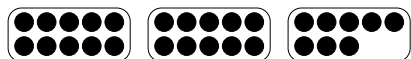
1. How many digits in each number:

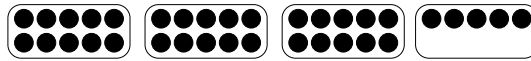
254 _____

3 _____

1,287 _____

2.  This picture contains ten dots. Count the dots in each group:





2. Write the numbers on the place value charts.

t	o
35	

t	o
20	

t	o
94	

t	o
68	

3. The number 42 written in expanded form is: $42 = 40 + 2$. Write the following in expanded form.

$36 =$ _____

$72 =$ _____

3. Find the differences.

$8 - 4 = \underline{\quad}$

$3 - 2 = \underline{\quad}$

$10 - 4 = \underline{\quad}$

$10 - 1 = \underline{\quad}$

$6 - 3 = \underline{\quad}$

$7 - 2 = \underline{\quad}$

$10 - 3 = \underline{\quad}$

$10 - 6 = \underline{\quad}$

$6 - 2 = \underline{\quad}$

$9 - 2 = \underline{\quad}$

$8 - 3 = \underline{\quad}$

$7 - 4 = \underline{\quad}$

$6 - 4 = \underline{\quad}$

$9 - 4 = \underline{\quad}$

$9 - 7 = \underline{\quad}$

Test C1 Answers

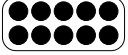
1. How many digits in each number:

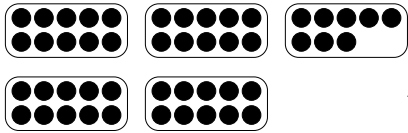
254 3

3 1

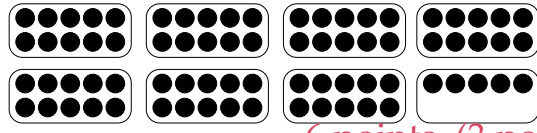
1,287 4

6 points. (2 points each).

2.  This picture contains ten dots. Count the dots in each group:



48



75

6 points. (3 points each).

Note: the child should not count individual dots in the full rectangles.

2. Write the numbers on the place value charts.

	t	o
35	3	5

	t	o
20	2	0

	t	o
94	9	4

	t	o
68	6	8

8 points. (2 points each).

3. The number 42 written in expanded form is: $42 = 40 + 2$. Write the following in expanded form.

$36 = 30 + 6$

$72 = 70 + 2$

6 points. (3 points each).

3. Find the differences.

$8 - 4 = 4$

$3 - 2 = 1$

$10 - 4 = 6$

$10 - 1 = 9$

$6 - 3 = 3$

$7 - 2 = 5$

$10 - 3 = 7$

$10 - 6 = 4$

$6 - 2 = 4$

$9 - 2 = 7$

$8 - 3 = 5$

$7 - 4 = 3$

$6 - 4 = 2$

$9 - 4 = 5$

$9 - 7 = 2$

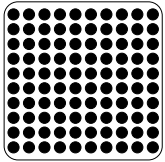
15 points. (1 point each).

PLACEMENT INSTRUCTIONS

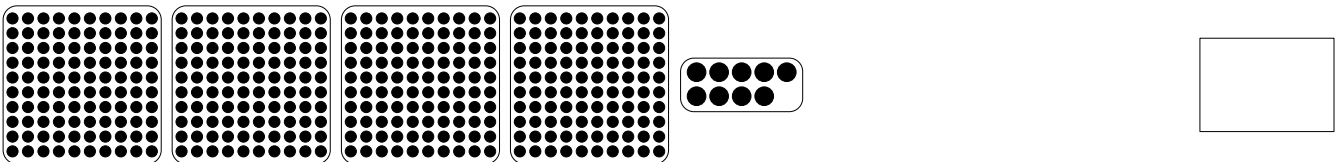
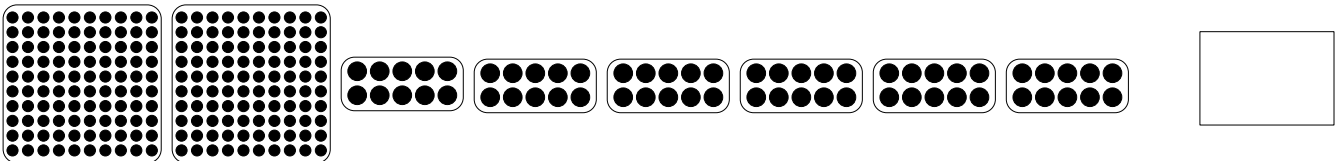
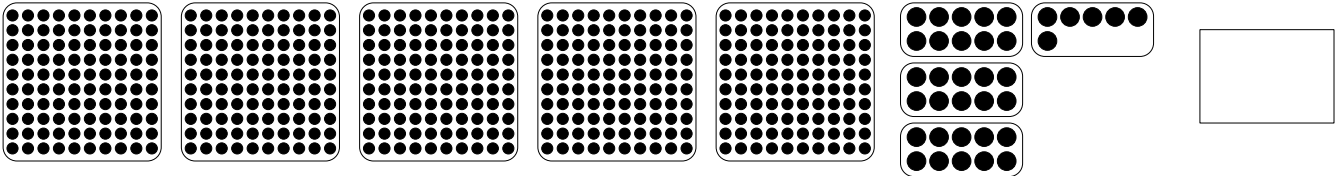
Less than 36 points: Begin at Level C1

36 points or more: Proceed to Test C2

Test C2



1. This grid contains 100 dots. Write how many dots are in each picture below:



2. Write the numbers on the place value charts.

h	t	o
2	4	5

h	t	o
3	0	7

h	t	o
1	9	0

3. Write the numbers in expanded form.

$$245 = \underline{\hspace{2cm}}$$

$$190 = \underline{\hspace{2cm}}$$

$$307 = \underline{\hspace{2cm}}$$

3. Calculate:

			2	3
		+	7	5

			6	8
		+	1	4

			8	7
		-	3	6

			9	0
		-	4	5

Continued over leaf

3. Skip count:



24 34 _____

4. Add:

$49 + 10 = \underline{\hspace{2cm}}$

$54 + 9 = \underline{\hspace{2cm}}$

$22 + 9 = \underline{\hspace{2cm}}$

$16 + 9 = \underline{\hspace{2cm}}$

$44 + 10 = \underline{\hspace{2cm}}$

$38 + 10 = \underline{\hspace{2cm}}$

$62 + 9 = \underline{\hspace{2cm}}$

$63 + 10 = \underline{\hspace{2cm}}$

$24 + 9 = \underline{\hspace{2cm}}$

5. Add:

$8 + 7 = \underline{\hspace{2cm}}$

$7 + 9 = \underline{\hspace{2cm}}$

$9 + 7 = \underline{\hspace{2cm}}$

$7 + 4 = \underline{\hspace{2cm}}$

$7 + 7 = \underline{\hspace{2cm}}$

$4 + 2 = \underline{\hspace{2cm}}$

$7 + 2 = \underline{\hspace{2cm}}$

$7 + 6 = \underline{\hspace{2cm}}$

$3 + 9 = \underline{\hspace{2cm}}$

$3 + 7 = \underline{\hspace{2cm}}$

$7 + 10 = \underline{\hspace{2cm}}$

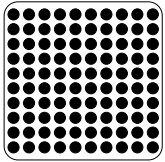
$9 + 2 = \underline{\hspace{2cm}}$

$2 + 7 = \underline{\hspace{2cm}}$

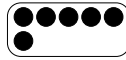
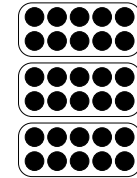
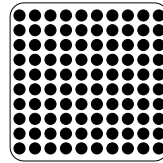
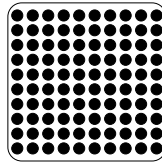
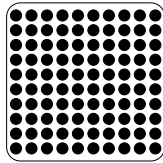
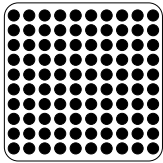
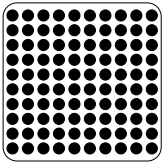
$1 + 7 = \underline{\hspace{2cm}}$

$3 + 8 = \underline{\hspace{2cm}}$

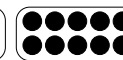
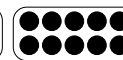
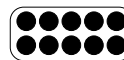
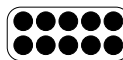
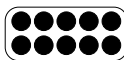
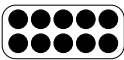
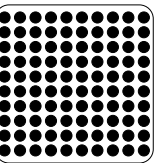
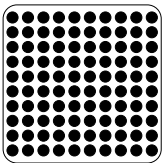
Test C2 Answers



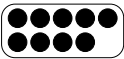
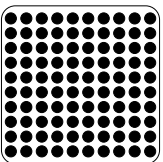
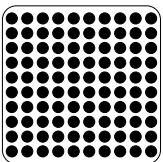
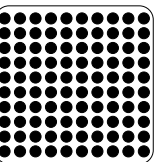
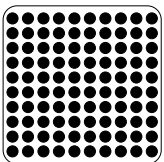
1. This grid contains 100 dots. Write how many dots are in each picture below:



536



260



409

3 points. (1 point each).

2. Write the numbers on the place value charts.

	h	t	o
245	2	4	5

	h	t	o
307	3	0	7

	h	t	o
190	1	9	0

3 points. (1 point each).

3. Write the numbers in expanded form.

$$245 = 200 + 40 + 5$$

$$190 = 100 + 90 + 0$$

$$307 = 300 + 0 + 7 \quad (\text{zeros not necessary})$$

3 points. (1 point each).

3. Calculate:

			2	3
		+	7	5
			9	8

			6	8
		+	1	4
			8	2

			8	7
		-	3	6
			5	1

			9	0
		-	4	5
			4	5

12 points. (3 points each).

3. Skip count:



24 34 44 54 64 74 84 94 104 114

25 points. (Deduct one point for each error).

4. Add:

$49 + 10 = \underline{59}$

$54 + 9 = \underline{63}$

$22 + 9 = \underline{31}$

$16 + 9 = \underline{25}$

$44 + 10 = \underline{54}$

$38 + 10 = \underline{48}$

$62 + 9 = \underline{71}$

$63 + 10 = \underline{73}$

$24 + 9 = \underline{33}$

9 points. (1 point each).

5. Add:

$8 + 7 = \underline{15}$

$7 + 9 = \underline{16}$

$9 + 7 = \underline{16}$

$7 + 4 = \underline{11}$

$7 + 7 = \underline{14}$

$4 + 2 = \underline{6}$

$7 + 2 = \underline{9}$

$7 + 6 = \underline{13}$

$3 + 9 = \underline{12}$

$3 + 7 = \underline{10}$

$7 + 10 = \underline{17}$

$9 + 2 = \underline{11}$

$2 + 7 = \underline{9}$

$1 + 7 = \underline{8}$

$3 + 8 = \underline{11}$

15 points. (1 point each).

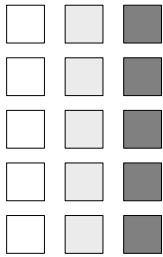
PLACEMENT INSTRUCTIONS

Less than 60 points: Begin at Level C2

60 points or more: Proceed to Test C3

Test C3

1. Write an addition equation and a multiplication equation about the picture.

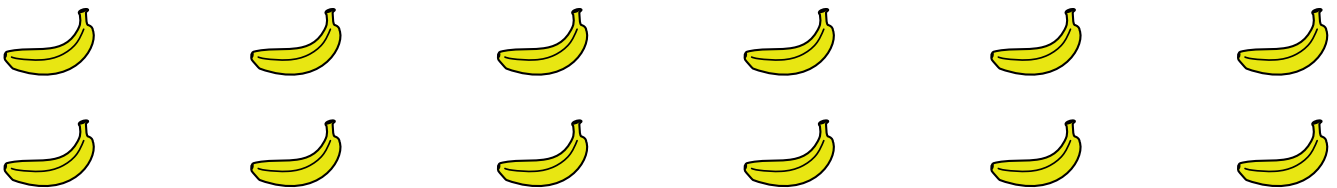


2. Write an addition to match each multiplication and solve:

$4 \times 4 =$ _____

$2 \times 5 =$ _____

3. Share 12 bananas between 3 monkeys, how many bananas does each monkey get? _____

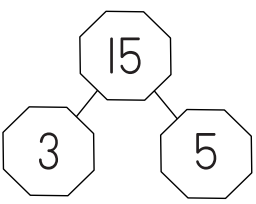
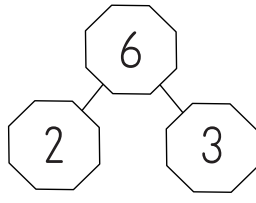


4. How much money is shown in each row?



Continued over leaf

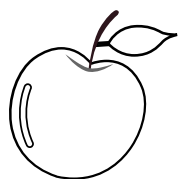
5. Follow the example to write four equations represented by the multiplication number bond.

	$3 \times 5 = 15$	_____
	$5 \times 3 = 15$	_____
	$15 \div 5 = 3$	_____
	$15 \div 3 = 5$	_____
		_____

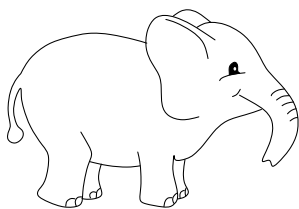
6. Circle the even numbers.

52 889 637 608 845 620

7. Circle the most appropriate units to measure each object (in real life).



cm
m



cm
m



cm
m

5. Multiply:

$10 \times 10 = \underline{\hspace{2cm}}$

$2 \times 3 = \underline{\hspace{2cm}}$

$10 \times 3 = \underline{\hspace{2cm}}$

$2 \times 6 = \underline{\hspace{2cm}}$

$10 \times 1 = \underline{\hspace{2cm}}$

$10 \times 4 = \underline{\hspace{2cm}}$

$2 \times 1 = \underline{\hspace{2cm}}$

$10 \times 2 = \underline{\hspace{2cm}}$

$10 \times 8 = \underline{\hspace{2cm}}$

$2 \times 5 = \underline{\hspace{2cm}}$

$2 \times 8 = \underline{\hspace{2cm}}$

$2 \times 4 = \underline{\hspace{2cm}}$

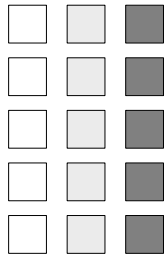
$2 \times 9 = \underline{\hspace{2cm}}$

$10 \times 6 = \underline{\hspace{2cm}}$

$10 \times 9 = \underline{\hspace{2cm}}$

Test C3 Answers

1. Write an addition equation and a multiplication equation about the picture.



$$5 + 5 + 5 = 15 \text{ or } 3 + 3 + 3 + 3 + 3 = 15$$

$$3 \times 5 = 15 \text{ or } 5 \times 3 = 15$$

4 points. (2 points each).

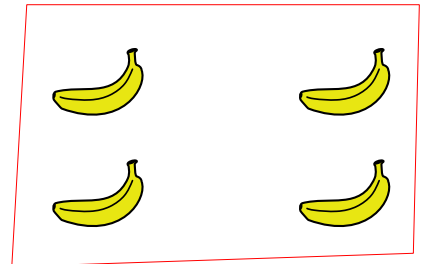
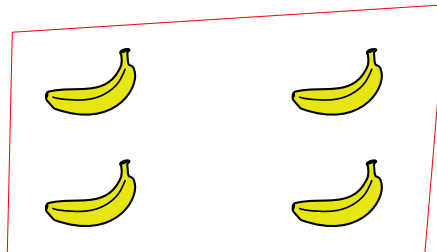
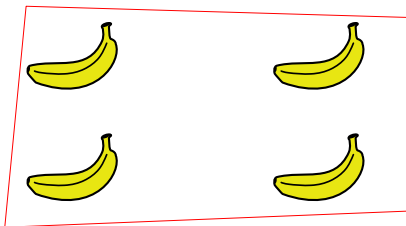
2. Write an addition to match each multiplication and solve:

$$4 \times 4 = 4 + 4 + 4 + 4 = 16$$

$$2 \times 5 = 5 + 5 = 10$$

6 points. (2 points for each equation, 1 point for each answer).

3. Share 12 bananas between 3 monkeys, how many bananas does each monkey get? 3



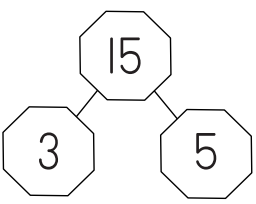
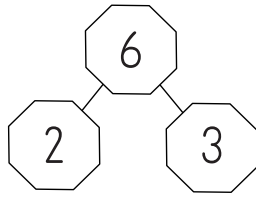
2 points. (1 point grouping, 1 point for answer).

4. How much money is shown in each row?



6 points. (2 points each).

5. Follow the example to write four equations represented by the multiplication number bond.

	$3 \times 5 = 15$		$2 \times 3 = 6$
	$5 \times 3 = 15$		$3 \times 2 = 6$
	$15 \div 5 = 3$		$6 \div 3 = 2$
	$15 \div 3 = 5$		$6 \div 2 = 3$

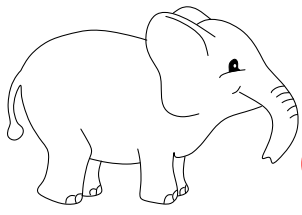
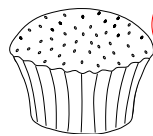
4 points. (1 point each equation).

6. Circle the even numbers.

☒ 52 889 637 ☒ 608 845 ☒ 620

6 points. (deduct 1 point for each error).

7. Circle the most appropriate units to measure each object (in real life).

 ☒ cm ☐ m	 ☐ cm ☒ m	 ☒ cm ☐ m
--	--	---

3 points. (deduct 1 point for each error).

5. Multiply:

$10 \times 10 = \underline{100}$	$2 \times 3 = \underline{6}$	$10 \times 3 = \underline{30}$
$2 \times 6 = \underline{12}$	$10 \times 1 = \underline{10}$	$10 \times 4 = \underline{40}$
$2 \times 1 = \underline{2}$	$10 \times 2 = \underline{20}$	$10 \times 8 = \underline{80}$
$2 \times 5 = \underline{10}$	$2 \times 8 = \underline{16}$	$2 \times 4 = \underline{8}$
$2 \times 9 = \underline{18}$	$10 \times 6 = \underline{60}$	$10 \times 9 = \underline{90}$

15 points. (deduct 1 point for each error).

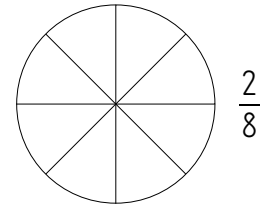
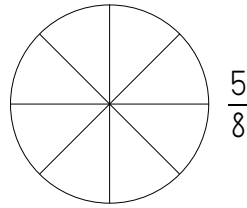
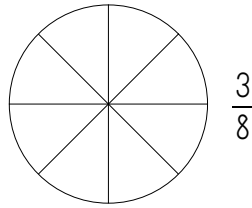
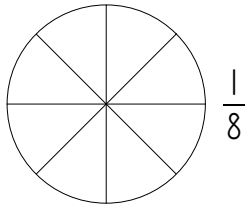
PLACEMENT INSTRUCTIONS

Less than 39 points: Begin at Level C3

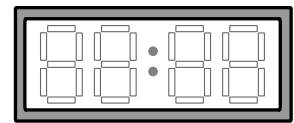
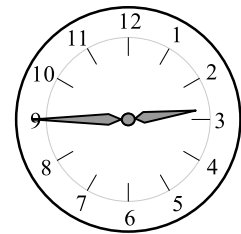
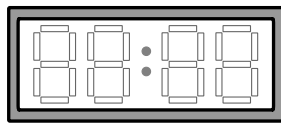
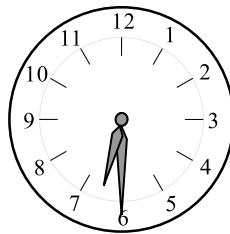
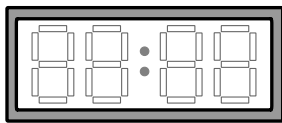
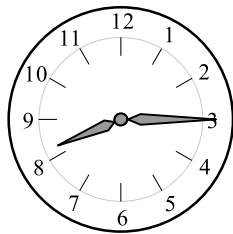
39 points or more: Proceed to Test C4

Test C4

1. Colour the fraction of the shape indicated.

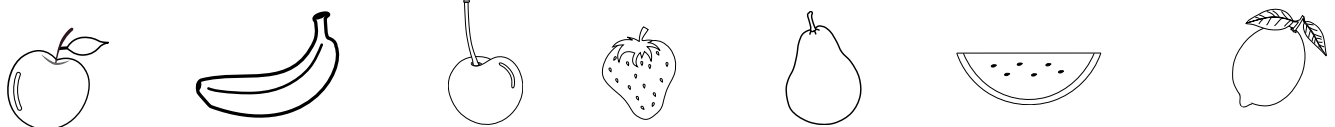


2. Colour the digital clock to match the time shown on the analogue clock and write the time in words.



3. Follow the instructions:

- Place a cross on the first fruit from the right.
- Circle the fourth fruit from the left.
- Colour the third fruit from the left red.
- Underline the second fruit from the right.
- Colour the third fruit from the right green.
- Colour the second fruit from the left yellow.



Continued over leaf

4. Follow the direction to colour the squares and make a picture. Colour neatly.

Light blue: F1 E2 F2 E3 D4 E4

F4 D5 E5 D6 E6 D7 E7 F7 E9

Blue: G2 G3 G4 H4 F5 G5 H5

F6 G6 H6 F7 G7 H7 F8 G9

Red: C5 I5 C6 I6 B7 C7 I7 J7

B8 C8 I8 J8 B9 J9

Yellow: F9 F10

Orange: E10 G10 E11 G11

	A	B	C	D	E	F	G	H	I	J	K
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											

5. Multiply:

$10 \times 10 = \underline{\hspace{2cm}}$

$10 \times 6 = \underline{\hspace{2cm}}$

$10 \times 5 = \underline{\hspace{2cm}}$

$10 \times 3 = \underline{\hspace{2cm}}$

$10 \times 1 = \underline{\hspace{2cm}}$

$2 \times 1 = \underline{\hspace{2cm}}$

$10 \times 4 = \underline{\hspace{2cm}}$

$2 \times 6 = \underline{\hspace{2cm}}$

$2 \times 3 = \underline{\hspace{2cm}}$

$2 \times 7 = \underline{\hspace{2cm}}$

$10 \times 8 = \underline{\hspace{2cm}}$

$10 \times 2 = \underline{\hspace{2cm}}$

$10 \times 7 = \underline{\hspace{2cm}}$

$2 \times 10 = \underline{\hspace{2cm}}$

$2 \times 9 = \underline{\hspace{2cm}}$

$10 \times 9 = \underline{\hspace{2cm}}$

$2 \times 8 = \underline{\hspace{2cm}}$

$10 \times 10 = \underline{\hspace{2cm}}$

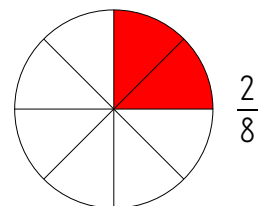
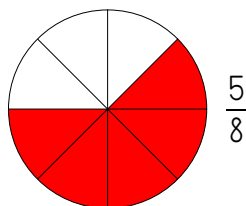
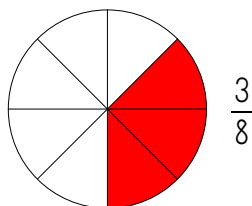
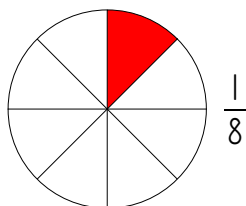
$2 \times 5 = \underline{\hspace{2cm}}$

$2 \times 4 = \underline{\hspace{2cm}}$

$2 \times 2 = \underline{\hspace{2cm}}$

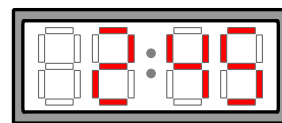
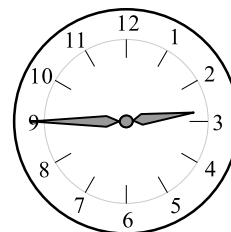
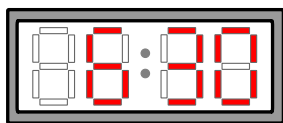
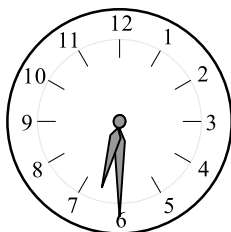
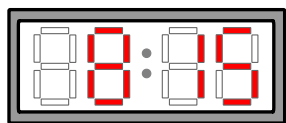
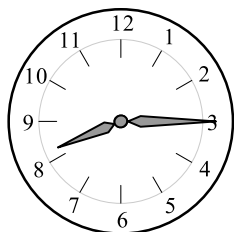
Test C4

1. Colour the fraction of the shape indicated.



12 points. (accept correct variations).

2. Colour the digital clock to match the time shown on the analogue clock and write the time in words.

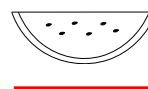
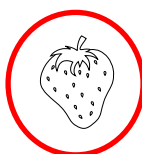


Quarter past eight Half past six Quarter to three

12 points. (2 points digital, 2 points words).

3. Follow the instructions:

- Place a cross on the first fruit from the right.
- Circle the fourth fruit from the left.
- Colour the third fruit from the left red.
- Underline the second fruit from the right.
- Colour the third fruit from the right green.
- Colour the second fruit from the left yellow.



12 points. (deduct 2 points for each error).

Continued over leaf

4. Follow the direction to colour the squares and make a picture. Colour neatly.

Light blue: F1 E2 F2 E3 D4 E4

F4 D5 E5 D6 E6 D7 E7 F7 E9

Blue: G2 G3 G4 H4 F5 G5 H5

F6 G6 H6 F7 G7 H7 F8 G9

Red: C5 I5 C6 I6 B7 C7 I7 J7

B8 C8 I8 J8 B9 J9

Yellow: F9 F10

Orange: E10 G10 E11 G11

	A	B	C	D	E	F	G	H	I	J	K
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											

30 points. (deduct 1 point for each error).

5. Multiply:

$$10 \times 10 = \underline{100}$$

$$10 \times 6 = \underline{60}$$

$$10 \times 5 = \underline{50}$$

$$10 \times 3 = \underline{30}$$

$$10 \times 1 = \underline{10}$$

$$2 \times 1 = \underline{2}$$

$$10 \times 4 = \underline{40}$$

$$2 \times 6 = \underline{12}$$

$$2 \times 3 = \underline{6}$$

$$2 \times 7 = \underline{14}$$

$$10 \times 8 = \underline{80}$$

$$10 \times 2 = \underline{20}$$

$$10 \times 7 = \underline{70}$$

$$2 \times 10 = \underline{20}$$

$$2 \times 9 = \underline{18}$$

$$10 \times 9 = \underline{90}$$

$$2 \times 8 = \underline{16}$$

$$10 \times 10 = \underline{100}$$

$$2 \times 5 = \underline{10}$$

$$2 \times 4 = \underline{8}$$

$$2 \times 2 = \underline{4}$$

21 points. (deduct 1 point for each error).

PLACEMENT INSTRUCTIONS

Less than 77 points: Begin at Level C4

77 points or more: Proceed to Test D1

Test D1

1. Compare each pair of numbers (<, =, >)

1495	149	3483	5602	9346	9319
1924	8252	3794	9766	3240	3240

2. Round the following numbers to the nearest 10.

NUMBER	25	62	86	47	34
ROUNDED					

3. Estimate the sum and calculate it accurately. Then, write the correct sign (< = >) in the circle between the sums to compare the answers.

$$35 + 45$$

$$21 + 43$$

Estimate

Actual

Estimate

Actual

4. Calculate

$$\begin{array}{r} 6 \\ 9 \\ +4 \\ \hline \end{array}$$

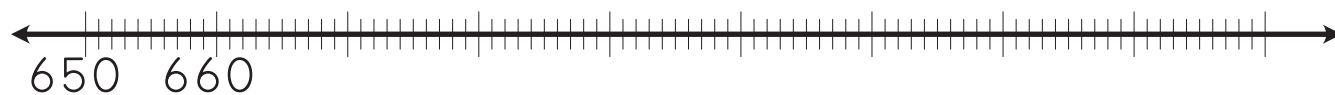
$$\begin{array}{r} 6 \\ 6 \\ +8 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ 9 \\ +5 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ 6 \\ +5 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ 5 \\ +7 \\ \hline \end{array}$$

5. Complete the number line then use it to add.



$$662 + 70 = \underline{\quad\quad} \quad 657 + 30 = \underline{\quad\quad} \quad 671 + 30 = \underline{\quad\quad}$$

$$695 + 40 = \underline{\quad\quad} \quad 673 + 10 = \underline{\quad\quad} \quad 684 + 50 = \underline{\quad\quad}$$

6. Calculate then perform the opposite operation to check your answer.

				check				
		4	4	7				
+	2	3	5					

				check				
		7	0	0				
-	3	1	2					

7. Solve the missing number equation.

$$870 - \underline{\quad\quad} = 383$$

Test D1

1. Compare each pair of numbers (<, =, >) 6 points (1 each)

$$1495 > 149$$

$$3483 > 5602$$

$$9346 > 9319$$

$$1924 < 8252$$

$$3794 < 9766$$

$$3240 = 3240$$

2. Round the following numbers to the nearest 10. 5 points (1 each)

NUMBER	25	62	86	47	34
ROUNDED	20	60	90	50	30

3. Estimate the sum and calculate it accurately. Then, write the correct sign (< = >) in the circle between the sums to compare the answers. 4 points (1 each)

$$35 + 45$$

$$21 + 43$$

Estimate

		3	0
	+	4	0
		7	0

Actual

		3	5
	+	4	5
		8	0

<

Estimate

		2	0
	+	4	0
		6	0

Actual

		2	1
	+	4	3
		6	4

<

4. Calculate

5 points (1 each)

$$\begin{array}{r} 6 \\ 9 \\ +4 \\ \hline 19 \end{array}$$

$$\begin{array}{r} 6 \\ 6 \\ +8 \\ \hline 20 \end{array}$$

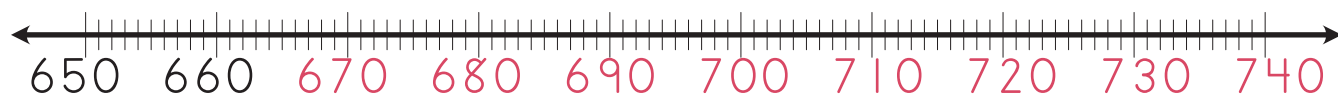
$$\begin{array}{r} 8 \\ 9 \\ +5 \\ \hline 22 \end{array}$$

$$\begin{array}{r} 1 \\ 6 \\ +5 \\ \hline 12 \end{array}$$

$$\begin{array}{r} 7 \\ 5 \\ +7 \\ \hline 19 \end{array}$$

5. Complete the number line then use it to add.

7 points (1 point for number line and 1 each for sums)



$$662 + 70 = \underline{732} \quad 657 + 30 = \underline{687} \quad 671 + 30 = \underline{701}$$

$$695 + 40 = \underline{735} \quad 673 + 10 = \underline{683} \quad 684 + 50 = \underline{734}$$

6. Calculate then perform the opposite operation to check your answer.

4 points (1 each)
check

	4	4	7
+	2	3	5
			682

	6	8	2
-	2	3	5
	4	4	7

	7	0	0
-	3	1	2
			388

	3	8	8
+	3	1	2
	7	0	0

7. Solve the missing number equation.

5 points (4 points for bar model and 1 point for solution each)

$$870 - \underline{\quad} = 383$$



		8	7	0
	-	3	8	7
		4	8	3

PLACEMENT INSTRUCTIONS

Less than 30 points: Begin at Level D1

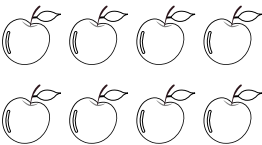
30 points or more: Proceed to Test D2

Test D2

1. Draw an array to show the multiplication:

$3 \times 4 = 12$

2. Write the division and multiplication equations that the array represents.



3. Solve.

		7	1
	×		2

		3	6
	×		4

		5	9
	×		2

		4	2
	×		5

4. Fill in the missing numbers.

$5 \times \underline{\hspace{2cm}} = 40$	$5 \times \underline{\hspace{2cm}} = 15$	$5 \times \underline{\hspace{2cm}} = 35$
$40 \div 5 = \underline{\hspace{2cm}}$	$15 \div 5 = \underline{\hspace{2cm}}$	$35 \div 5 = \underline{\hspace{2cm}}$

5. Fill in the missing numbers.

If $2 \times 16 = 32$,

and $2 \times 32 = 64$.

Find $4 \times 16 = \underline{\hspace{2cm}}$

If $2 \times 12 = 24$,

and $2 \times 24 = 48$.

Find $4 \times 24 = \underline{\hspace{2cm}}$

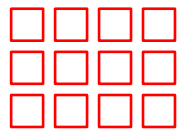
6. There were 24 pikelets on the plate. Dad, Mum, Molly and Toby shared them equally. How many pikelets did each member of the family get?

Test D2

1 point

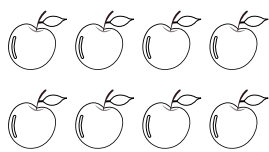
1. Draw an array to show the multiplication:

$$3 \times 4 = 12$$



4 points (1 point each)

2. Write the division and multiplication equations that the array represents.



$$\begin{array}{l} 2 \times 4 = 8 \\ \hline 4 \times 2 = 8 \\ \hline 8 \div 4 = 2 \\ \hline 8 \div 2 = 4 \\ \hline \end{array}$$

4 points (1 point each)

3. Solve.

		7	1
	×		2
	1	4	2

		3	6
	×		4
	1	4	4

		5	9
	×		2
	1	1	8

		4	2
	×		5
	2	1	0

4. Fill in the missing numbers.

6 points (1 point each)

$5 \times \underline{8} = 40$	$5 \times \underline{3} = 15$	$5 \times \underline{7} = 35$
$40 \div 5 = \underline{8}$	$15 \div 5 = \underline{3}$	$35 \div 5 = \underline{7}$

5. Fill in the missing numbers.

2 points (1 point each)

If $2 \times 16 = 32$,

If $2 \times 12 = 24$,

and $2 \times 32 = 64$.

and $2 \times 24 = 48$.

Find $4 \times 16 = \underline{64}$

Find $4 \times 24 = \underline{48}$

2 points (1 point equation and 1 point solution)

6. There were 24 pikelets on the plate. Dad, Mum, Molly and Toby shared them equally. How many pikelets did each member of the family get?

$$24 \div 4 = 6$$

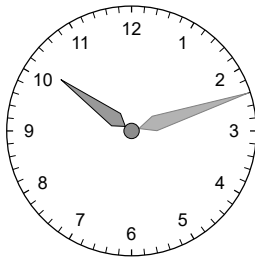
PLACEMENT INSTRUCTIONS

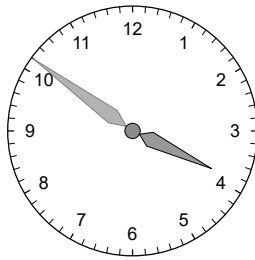
Less than 15 points: Begin at Level D2

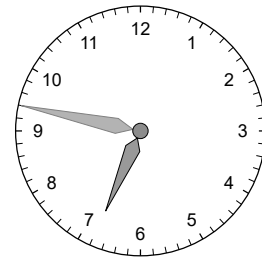
15 points or more: Proceed to Test D3

Test D3

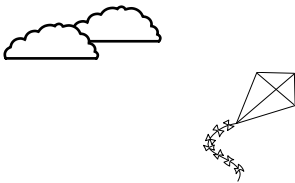
1. Write the time shown on the clock in digital form and in words.







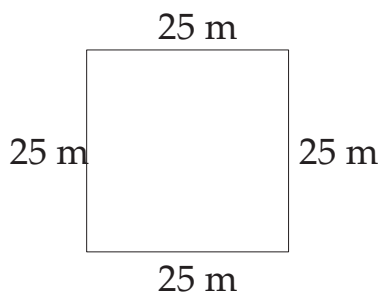
2. The kite is 537 cm above the ground. How high is that in metres and centimetres?



537 cm = _____ m _____ cm



3. Calculate the perimeter of this square paddock.



4. Write the number represented by each set of tally marks.

Witchetty grub	 25
Honey ant	
Lilly pilly	
Emu Apple	

5. Count the money and write the amount as dollars and cents.



6. Divide:

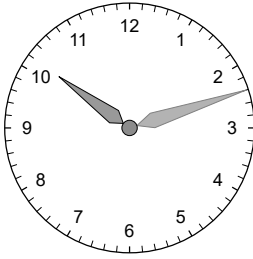
$$369 \div 3 = \underline{\quad}$$

$$248 \div 2 = \underline{\quad}$$

Test D3

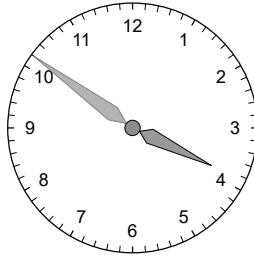
1. Write the time shown on the clock in digital form and in words.

6 points (1 point each)



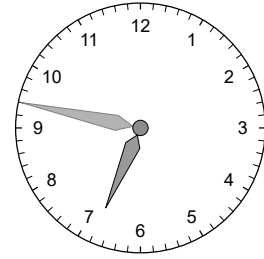
10:12

Twelve past 10



3:51

9 minutes to 4

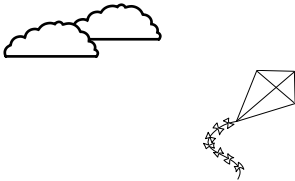


6:17

13 minutes to 7

2. The kite is 537 cm above the ground. How high is that in metres and centimetres?

2 points (1 point each)

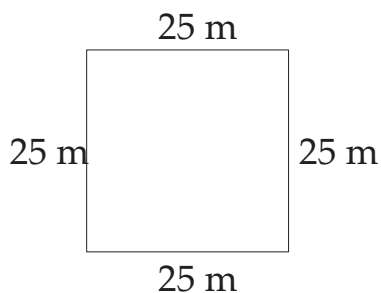


537 cm = 5 m 37 cm



3. Calculate the perimeter of this square paddock.

2 points (1 point equation and 1 point result)



$$25 + 25 + 25 + 25 = 100\text{m}$$

4. Write the number represented by each set of tally marks.

3 points (1 point each)

Witchetty grub		25
Honey ant		11
Lilly pilly		29
Emu Apple		22

5. Count the money and write the amount as dollars and cents.

1 point



\$22.05

6. Divide:

2 points (1 point each)

$$369 \div 3 = \underline{123}$$

$$248 \div 2 = \underline{124}$$

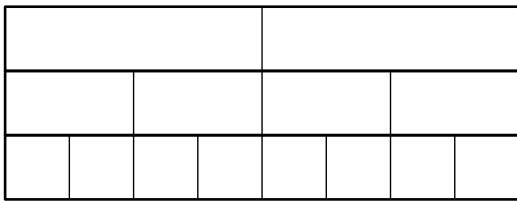
PLACEMENT INSTRUCTIONS

Less than 10 points: Begin at Level D3

10 points or more: Proceed to Test D4

Test D4

1. Use the diagram to find the equivalent fractions.



$$\frac{1}{4} = \frac{2}{8}$$

$$\frac{1}{4} = \frac{2}{8}$$

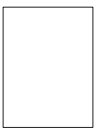
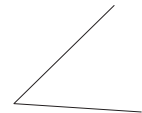
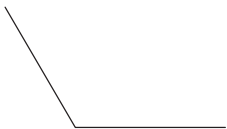
$$\frac{6}{8} = \frac{3}{4}$$

$$\frac{4}{8} = \frac{1}{2}$$

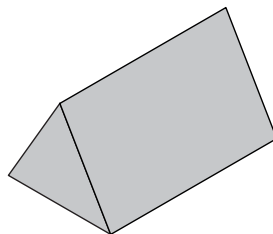
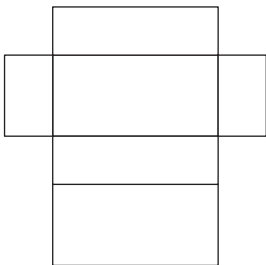
$$\frac{1}{2} = \frac{4}{8}$$

$$\frac{1}{2} = \frac{4}{8}$$

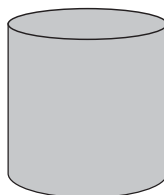
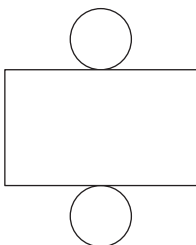
2. Label the angles. Write A for acute, R for right or O for obtuse in the box next to each angle.



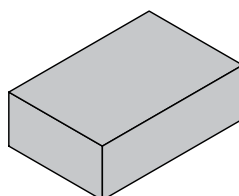
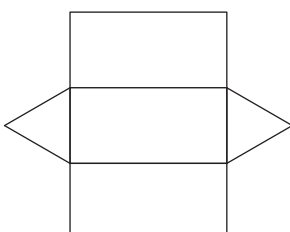
3. Match the shape to its net and its name.



cylinder

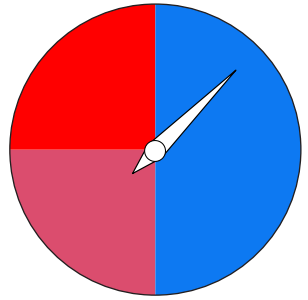
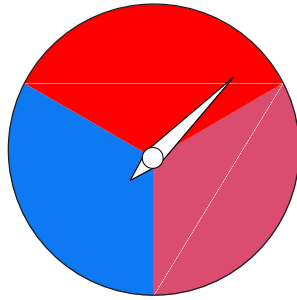
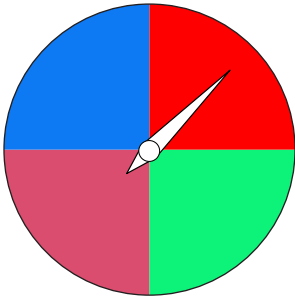


triangular prism



rectangular prism

4. Circle the picture that shows a spinner with fifty-fifty chance of landing blue.



Lesson Practice

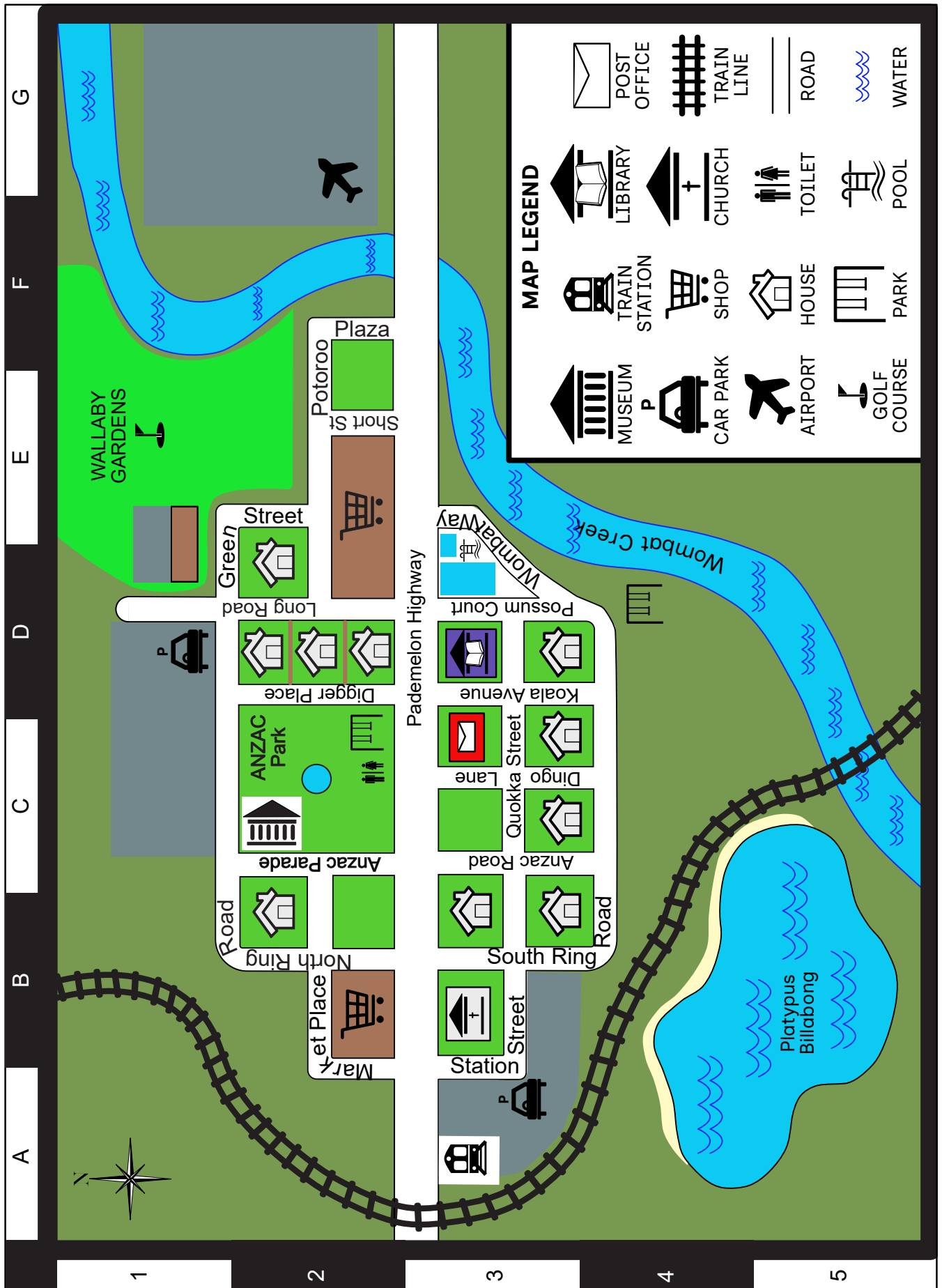
Answer the questions using the map of Wombat Creek on the next page.

1. What public place is at C2? _____
2. Give the map reference of two shops. _____
3. What transport is available at A3? _____
4. Where is the airport? _____
5. What natural feature is at B5? _____
6. Where is the post office? _____
7. Give the map reference of a place you could play on a swing. _____
8. What game would you play at E1? _____
9. Where are the swimming pools? _____
10. Give the map reference of one car park. _____

Your turn!

Write your own questions about the map. Give the answers in another colour.

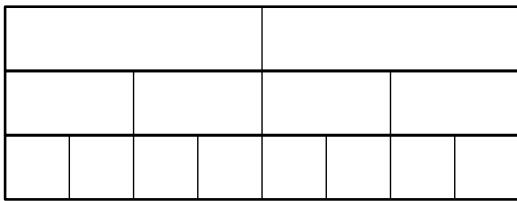
MAP OF WOMBAT CREEK



Test D4

1. Use the diagram to find the equivalent fractions.

6 points (1 point each)



$$\frac{1}{4} = \frac{2}{8}$$

$$\frac{2}{4} = \frac{4}{8}$$

$$\frac{6}{8} = \frac{3}{4}$$

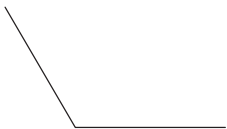
$$\frac{4}{8} = \frac{2}{4}$$

$$\frac{1}{2} = \frac{4}{8}$$

$$\frac{1}{2} = \frac{2}{4}$$

2. Label the angles. Write A for acute, R for right or O for obtuse in the box next to each angle.

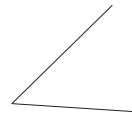
3 points (1 point each)



O



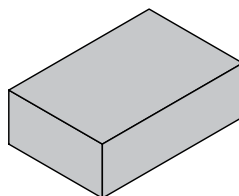
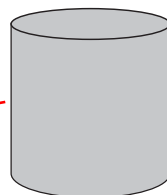
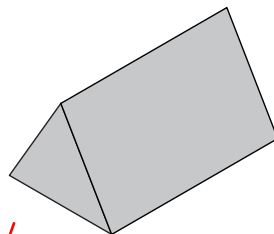
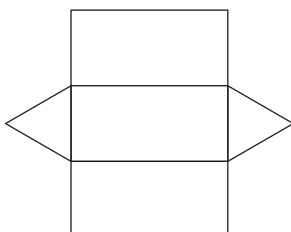
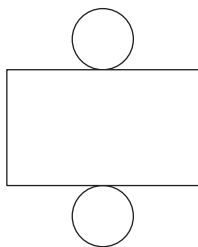
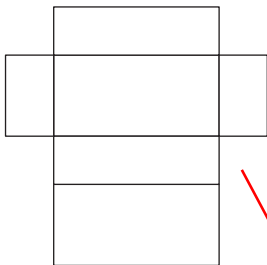
R



A

3. Match the shape to its net and its name.

6 points (1 point each line)



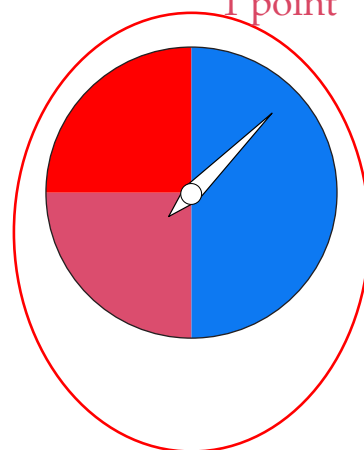
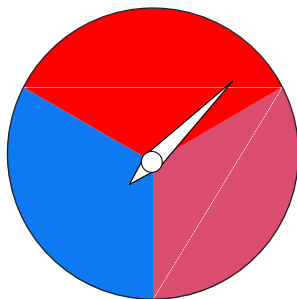
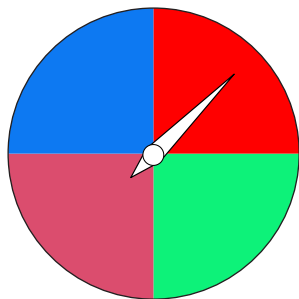
cylinder

triangular prism

rectangular prism

4. Circle the picture that shows a spinner with fifty-fifty chance of landing blue.

1 point



Lesson Practice

4 points (1 point each)

Answer the questions using the map of Wombat Creek on the next page.

1. What public place is at C2? ANZAC Park
2. Give the map reference of two shops. B2 and E2
3. What transport is available at A3? Train
4. Where is the airport? G2 (or G1)

PLACEMENT INSTRUCTIONS

Less than 15 points: Begin at Level D4

15 points or more: Proceed to Test E1