

# Basic Skills Maths Year 5 – Contents

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## 1.1 Whole numbers

## Ordering three- and four-digit numbers

Write the next number in each sequence.

1. 725, 735, 745,
2. 876, 776, 676,
3. 1500, 1600, 1700,
4. 1700, 1800, 1900,
5. 1150, 1250, 1350,
6. 2600, 2500, 2400,
7. 3425, 3325, 3225,
8. 2750, 2650, 2550,
9. 2350, 2250, 2150,
10. 6789, 6791, 6793,
11. 5540, 5530, 5520,
12. 1130, 1120, 1110,
13. 8770, 8780, 8790,
14. 1100, 2200, 3300,
15. 7980, 7975, 7970,

Write each of these sets of numbers in ascending order.

16. 987, 789, 879, 799

\_\_\_\_\_

17. 1065, 1056, 1605, 1506

\_\_\_\_\_

\_\_\_\_\_

18. 4760, 4670, 4076, 4067

\_\_\_\_\_

19. 5677, 5476, 5576, 5676

\_\_\_\_\_

20. 8990, 8099, 8998, 8908

\_\_\_\_\_

Write each of these sets of numbers in descending order.

21. 7680, 7608, 7860, 7806

\_\_\_\_\_

22. 4685, 4658, 4688, 4655

\_\_\_\_\_

23. 1009, 1090, 1900, 1099

\_\_\_\_\_

24. 4489, 4498, 4499, 4488

\_\_\_\_\_

25. 9201, 9021, 9221, 9210

\_\_\_\_\_

\_\_\_\_\_

## Number patterns and relationships

What number is missing from each number pattern?

1. 9, 12, 15, , 21

2. 15, 25, 35, , 55

3. 4, 8, 12, , 20

4. 34, 32, 30, , 26

5. 14, 21, 28, , 42

6. 54, 48, 42, , 30

7. 9, 18, 27, , 45

8. 16, 24, 32, , 48

9. 64, 56, 48, , 32

10. 63, 54, 45, , 27

What is the **tenth** term in each number pattern?

11. 2, 4, 6, 8, 10 ...

12. 3, 6, 9, 12, 15 ...

13. 4, 8, 12, 16, 20 ...

14. 6, 12, 18, 24, 30 ...

15. 15, 20, 25, 30, 35 ...

What number is missing from each number sentence?

16.  $14 + \square = 18$

17.  $\square + 11 = 15$

18.  $\square + 6 = 6 + 5$

19.  $14 + 5 = 5 + \square$

20.  $9 + \square = 9$

21.  $\square + 16 = 26$

22.  $21 + 2 = 2 + \square$

23.  $42 + 10 = \square$

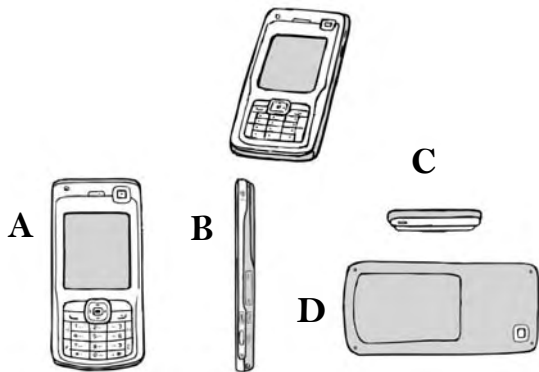
24.  $0 + \square = 45$

25.  $23 + \square = 46$

## 1.3 Three-dimensional space

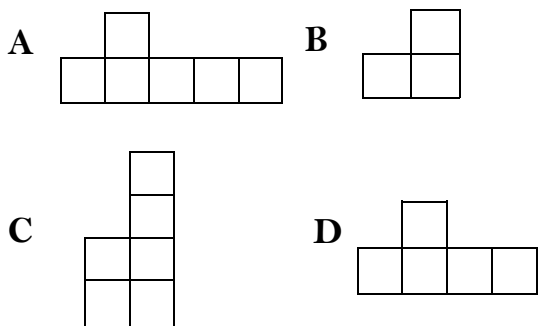
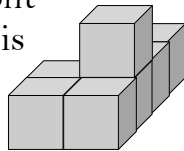
## Investigating prisms and pyramids

Identify the top view, front view and side view of this object.



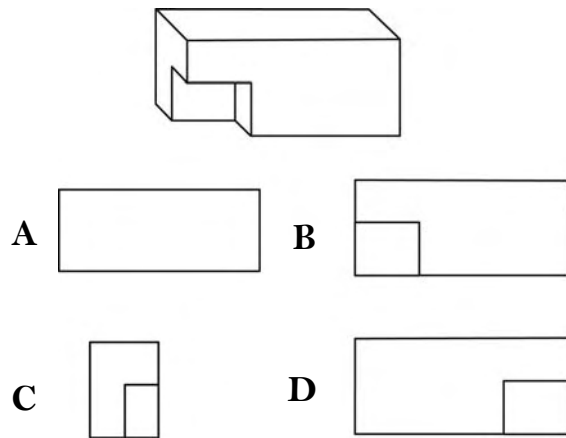
- top view  
 A     B     C     D
- front view  
 A     B     C     D
- side view  
 A     B     C     D

Identify the top view, front view and side view of this object.



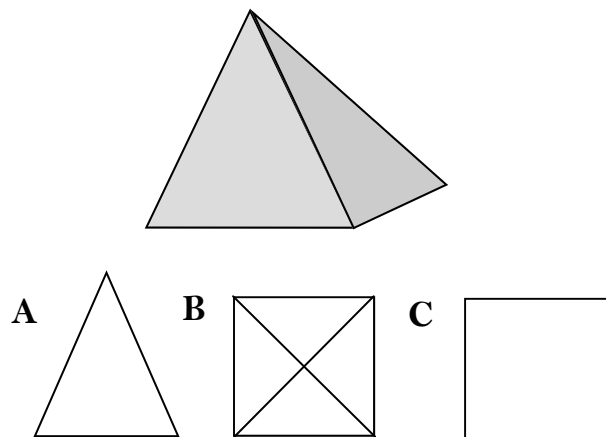
- top view  
 A     B     C     D
- front view  
 A     B     C     D
- side view  
 A     B     C     D

Identify the top view, front view and side view of this object.



- top view  
 A     B     C     D
- front view  
 A     B     C     D
- side view  
 A     B     C     D

Identify the top view, front view and side view of this object.



- top view  
 A     B     C
- front view  
 A     B     C
- side view  
 A     B     C

## 2.1 Addition and subtraction

## Addition of numbers with and without trading up to 999

- The answer to  $399 + 102$  is closest to  
 500    550    400    450
- The answer to  $489 + 306$  is closest to  
 700    750    800    850
- The answer to  $296 + 145$  is closest to  
 300    350    400    450
- The answer to  $453 + 497$  is closest to  
 800    850    900    950
- The answer to  $353 + 447$  is closest to  
 800    850    900    950
- Eora School has 195 students in Infants and 205 students in Primary. How many students are there at the school?  
 390    400    410    420
- Trent has 240 stamps and Jason has 256. How many stamps do they have altogether?  
 456    476    486    496
- Amy wrote one story of 603 words and another of 350 words. How many words did she write altogether?  
 853    943    953    993
- Jess read 3 books: one had 213 pages, one had 350 pages and one had 190 pages. How many pages did she read altogether?  
 763    773    733    753
- In one week, Adam's family spent \$340 on rent, \$260 on food, \$95 on entertainment, and \$212 on other things.  
How much did his family spend altogether?  
 \$907    \$807    \$905    \$970

$$\begin{array}{r} 2 \ 3 \ 6 \\ + 1 \ 1 \ 7 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \ 3 \ 4 \\ + \quad 9 \ 8 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \ 6 \ 5 \\ + 3 \ 6 \ 4 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \ 5 \ 3 \\ + 2 \ 0 \ 9 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \ 6 \ 4 \\ + \quad 5 \ 7 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \ 0 \ 9 \\ + 7 \ 6 \ 0 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \ 7 \ 7 \\ + 1 \ 3 \ 7 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \ 5 \ 4 \\ + 1 \ 0 \ 9 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \ 7 \ 6 \\ + \quad 7 \ 9 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \ 9 \ 9 \\ + 5 \ 3 \ 0 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \ 6 \ 7 \\ + 2 \ 7 \ 7 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \ 9 \ 9 \\ + 6 \ 3 \ 3 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \ 6 \ 7 \\ + 3 \ 6 \ 7 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \ 5 \ 2 \\ + \quad 9 \ 9 \\ \hline \end{array}$$

## 2.2 Data

## Bar and column graphs

1. Use this information to construct a bar graph on the grid. The first column has been done.

Favourite sandwich fillings

peanut butter ~~||||~~ ||  
 salad ~~||||~~ |  
 vegemite ||||  
 honey ~~||||~~ ~~||||~~ ||  
 jam ||||  
 ham ~~||||~~ ||||

vegemite																			
salad																			
honey																			
peanut butter																			
jam																			
ham																			

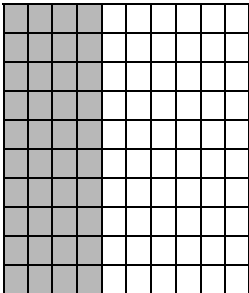
Now answer these questions.

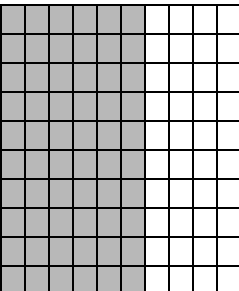
2. What is the favourite filling?  
 salad       honey  
 ham       vegemite
3. Which are the least favourite fillings?  
 salad       ham  
 jam       vegemite
4. Which filling got 5 more votes than jam?  
 salad       honey  
 ham       peanut butter
5. Which filling got 2 more votes than peanut butter?  
 salad       honey  
 jam       ham
6. What is the second favourite filling?  
 salad       honey  
 ham       peanut butter
7. Which filling got 6 fewer votes than honey?  
 \_\_\_\_\_
8. Which filling is as popular as vegemite?  
 \_\_\_\_\_
9. Which 2 fillings got 18 votes between them?  
 \_\_\_\_\_
10. How many people answered the sandwich filling survey?  
 42       6       43       11
11. Survey your friends on their favourite colour. Make a bar graph on the grid to show your results.

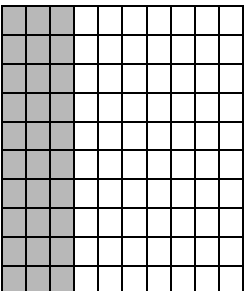

## 4.1 Fractions and decimals

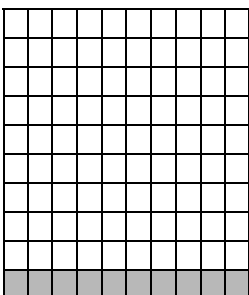
## Whole numbers, tenths and hundredths

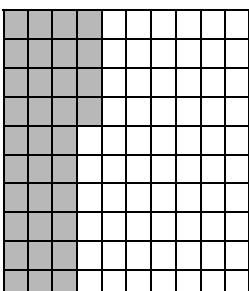
Each grid represents one whole. How much does each diagram represent?

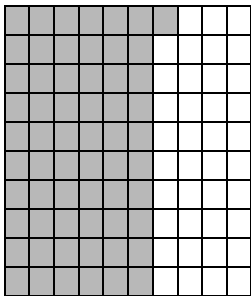
1.   4 tenths  
 4 hundredths  
 40 tenths  
 1 quarter

2.   60 tenths  
 6 hundredths  
 1 sixth  
 6 tenths

3.   30 hundredths  
 300 hundredths  
 30 tenths  
 1 third

4.   1 tenth  
 1 hundredth  
 10  
 10 tenths

5.   34 tenths  
 34 hundredths  
 0.34 tenths  
 340 tenths

6.   6.1  
 61 hundredths  
 61 tenths  
 61

Write these in decimal form.

7. 1 whole, 3 tenths and 6 hundredths

8. 1 whole, 2 tenths and 9 hundredths

9. 0 whole, 2 tenths and 9 hundredths

10. 2 wholes, 7 tenths and 8 hundredths

11. 3 wholes, 1 tenth and 1 hundredth

12. 2 wholes, 9 tenths and 0 hundredths

13. 0 whole, 2 tenths and 1 hundredth

14. 6 wholes, 8 tenths and 0 hundredths

15. 3 wholes, 0 tenths and 9 hundredths

16. 8 wholes, 8 tenths and 8 hundredths

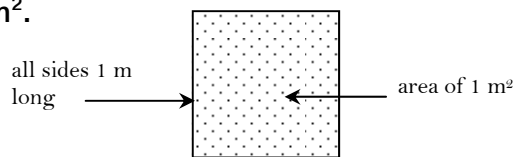
17. 1 whole, 1 tenth and 1 hundredth

18. 1 whole, 0 tenths and 9 hundredths

## 4.2 Area

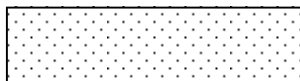
## Square metres

A square with sides 1 metre long has an area of 1 square metre – written as  $1 \text{ m}^2$ .

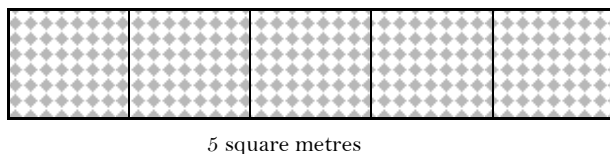


*Points to watch:*

Not all areas of  $1 \text{ m}^2$  are squares. A rectangle 2 m long by  $\frac{1}{2}$  a metre wide also has an area of  $1 \text{ m}^2$ .



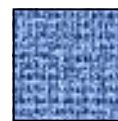
The term  $5 \text{ m}^2$  is read as 'five square metres', not 'five metres squared'.



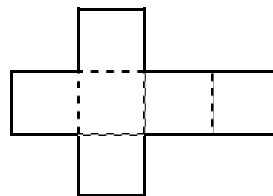
Shade the bubble to show the correct answer.

- $7.5 \text{ m}^2$  is read as
  - seventy-five square metres
  - seven point five metres square
  - seven point five square metres
  - seven point five metres squared
- Which has an area of less than  $1 \text{ m}^2$ ?
  - a door
  - a school desk
  - a book cover
  - the classroom floor
- Which has an area of about  $150 \text{ m}^2$ ?
  - a door
  - a back yard
  - a book cover
  - the classroom floor
- Which has an area of about  $6 \text{ m}^2$ ?
  - a door
  - a school desk
  - a book cover
  - the classroom floor
- The area of a door is closest to
  - $0.5 \text{ m}^2$
  - $2 \text{ m}^2$
  - $4 \text{ m}^2$
  - $8 \text{ m}^2$
- The floor area of a small bedroom is about
  - $9 \text{ m}^2$
  - $4 \text{ m}^2$
  - $30 \text{ m}^2$
  - $100 \text{ m}^2$
- The area of the top of a single bed is about
  - $2 \text{ m}^2$
  - $4 \text{ m}^2$
  - $10 \text{ m}^2$
  - $20 \text{ m}^2$

The area of one carpet square is  $4 \text{ m}^2$ .



- How many carpet squares would cover a floor space of  $4 \text{ m} \times 2 \text{ m}$ ?
  - 1
  - 2
  - 4
  - 8
- How many carpet squares would cover a floor space of  $4 \text{ m} \times 4 \text{ m}$ ?
  - 1
  - 2
  - 4
  - 8



- The net of a cube has a surface area of  $6 \text{ m}^2$ . What is the area of each face?
  - $6 \text{ m}^2$
  - $3 \text{ m}^2$
  - $1 \text{ m}^2$
  - $0.6 \text{ m}^2$
- What is the length of each edge?
  - 6 m
  - 3 m
  - 1.5 m
  - 1 m

1. 250, 270, 290,

2. Write these numbers in ascending order: 2165, 2156, 2065, 2106

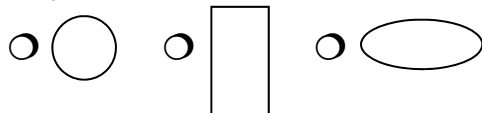
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3. Write these numbers in descending order: 3565, 3556, 3566, 3555

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4.  + 12 = 18

5. Which of these is the top view of a cylinder? Shade the bubble.

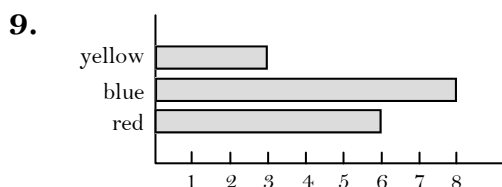


6. The answer to  $795 + 99$  is closest to

- 1000  
  900  
  800  
  700

7. 
$$\begin{array}{r} 573 \\ + 47 \\ \hline \end{array}$$

8. 
$$\begin{array}{r} 538 \\ - 222 \\ \hline \end{array}$$



How many children were surveyed altogether?

10. A normal classroom has a perimeter of about

- 3 kilometres  
 30 metres  
 300 metres  
 3000 millimetres

11.

$$\begin{array}{r} 42 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 40 \\ \times 3 \\ \hline \end{array}$$

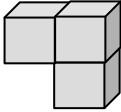
$$\begin{array}{r} 2 \\ \times 3 \\ \hline \end{array}$$

$$+$$


---

12. The perimeter of this sheet of paper would be measured in

- kilometres  
  metres  
 centimetres  
  millimetres

13.  If this shape was painted, how many blocks would have 5 faces painted?

- 0  
  1  
  2  
  3

14. Write this in decimal form.

3 wholes, 0 tenths and 5 hundredths

15. Write this in decimal form.

0 whole, 0 tenths and 9 hundredths

16.  $5.2 \text{ m}^2$  is read as

- five point two metres square  
 five point two metres squared  
 five point two square metres  
 five point two squared metres

17. Which of these has an area greater than  $1 \text{ m}^2$ , but less than  $6 \text{ m}^2$ ?

- exercise book  
 dining table top  
 playing field  
 bedroom floor

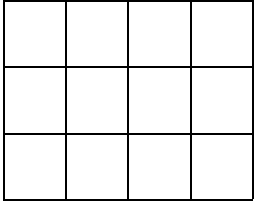
18. Which of these shapes would not tessellate?

- round tiles  
 square tiles  
 rectangular tiles  
 equilateral triangle tiles

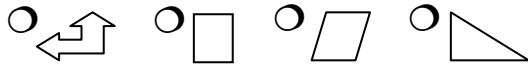
19. Which event is certain to happen?

- The moon will rise during the next month.  
  It will rain in Perth next month.

# Test 1 (cont.)

20.  Use the grid to draw a shape with an area of  $7 \text{ cm}^2$ .

21. Which shape would appear unchanged after being flipped over?



22. What is the next number in this number sequence?

2320, 2310, 2300,

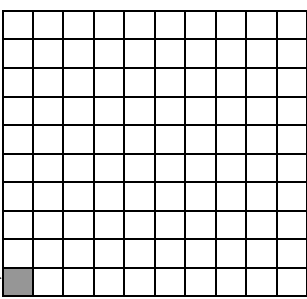
23. Which container has a capacity of about 10 litres?

- swimming pool    mug  
 a watering can    jug

24. How many half-litre containers do you need to half fill a 2 litre jug?

25. Follow the directions and colour the path to form a letter. Write the letter in the box.

up 9, right 4, down 1, right 1,  
down 1, right 1, down 5, left 1,  
down 1, left 1, down 1, left 4

Start → 

26. The answer to  $897 - 305$  is closest to

- 400    500    600    700

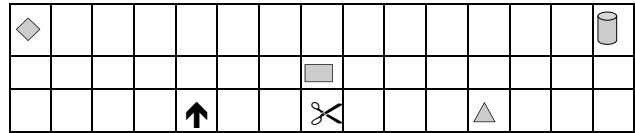
27. A water bottle holds half a litre. This is the same as

- 50 mL    5 mL  
 5000 mL    500 mL

28. What is the volume of water in the jug?



- 1 L    9.5 mL  
 950 L    950 mL



29. Which shape is closest to the scissors?

- diamond    cylinder  
 triangle    arrow

30. Which shape is to the right of the scissors?

- rectangle    cylinder  
 triangle    arrow

31. Complete this number sentence.

$$15 \div 6 = \square \text{ r } \square$$

32. Complete this number sentence.

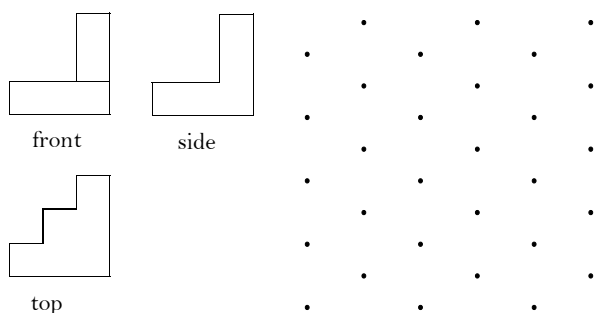
$$29 \div 4 = \square \text{ r } \square$$

33.  $1 \text{ kg} = \square \text{ g}$

34. Which of these might have a mass of about 10 kg?

- pencil case    printer  
 elephant    icy pole

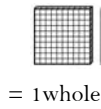
35. Draw this shape on the isometric grid paper.



## 9.1 Fractions and decimals

## Whole numbers, tenths and hundredths

How much does each diagram represent if each large grid represents 1 whole?



- 2.45    24.5    245    0.245
- 46.5    465    0.465    4.65
- 193    1.93    19.3    10.93
- 6.66    66.6    666.6    0.66
- 2.04    24.0    20.4    2.4
- 505    5.05    5.50    50.5
- 45    40.5    0.45    4.5
- 10.8    1.8    18    1.08
- 400    40    4    40.4

10.  5    0.5    0.005    0.05

Which number has the least value?

- 1.2    1.25    2.15    1.5
- 2.23    2.33    2.31    3.11
- 0.56    0.65    6.05    5.06
- 0.43    1.33    0.43    0.341
- 7.55    5.75    5.57    5.575

Which number has the greatest value?

- 7.5    7.65    7.55    7.6
- 10.9    1.99    9.99    10.89
- 3.22    2.33    3.32    3.23
- 0.56    0.65    0.66    0.55
- 7.0    6.89    6.98    6.99

Write these numbers in order from least to greatest.

21. 2.45   2.54   2.3   2.7
- 

22. 3.89   3.79   3.99   3.95
- 

23. 0.7   0.67   0.76   0.71
- 

24. 76.4   74.6   79.65   76.69
-