

Circle the correct answer.

1 What is the value of 3 in 7 306?

- A units (ones) B tens
C hundreds D thousands

2 What whole number comes just before 40?

- A 30 B 39
C 41 D 49

3 Which number is 10 greater than 64?

- A 65 B 74
C 605 D 650

4 Which of these numbers is an odd number?

- A 35 B 50
C 92 D 78

5 What is the missing number in this sequence?

24, 34, 44, □, 64, 74

- A 45 B 50
C 54 D 55

6 An item cost \$1.35. How many cents is that?

- A 5 B 30
C 35 D 135

7 What is the fourth whole number after 27?

- A 23 B 30
C 31 D 274

8 $6 + 15 + 5 = ?$

- A 26 B 27
C 37 D 80

9 When an odd and an even number are added together, the answer will be:

- A even B mostly even
C odd D unable to tell

10 When 21, 8 and 39 are added together, the total is closest to:

- A 60 B 70
C 80 D 100

11 What is the missing number in this addition?

$$26 + \square = 48$$

- A 12 B 18
C 22 D 74

12 Which number sentence is true?

- A $83 < 78$ B $18 > 61$
C $56 = 65$ D $61 > 57$

13 Choose the addition that has the greatest total.

- A $13 + 17$ B $14 + 15$
C $16 + 14$ D $13 + 18$

14 Solve:

$$\begin{array}{r} 432 \\ + 65 \\ \hline \end{array}$$

- A 497 B 498
C 507 D 597

15 Solve:

$$\begin{array}{r} 378 \\ - 60 \\ \hline \end{array}$$

- A 310 B 318
C 430 D 438

16 Solve:

$$\begin{array}{r} 509 \\ + 164 \\ \hline \end{array}$$

- A 663 B 673
C 763 D 6613

17 What is the missing number in this addition?

$$\begin{array}{r} 45 \\ 1\ \square \\ + 23 \\ \hline 80 \end{array}$$

- A 0 B 2
C 3 D 8

18 What is the missing number in this subtraction?

$$\begin{array}{r} 56 \\ - 3\ \square \\ \hline 17 \end{array}$$

- A 1 B 3
C 4 D 9

19 Joanne had \$5. If she spent \$1.75, how much does she have left?

- A \$3.25 B \$3.75
C \$4.25 D \$4.75

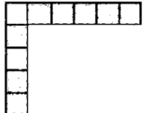
20 What is the least number of coins I need to have \$2.75?

- A 4 B 5
C 6 D 7

Circle the correct answer.

MULTIPLICATION

- 1 $4 + 4 + 4 + 4 + 4 = ?$
 A 4×4 B $4 + 20$
 C 5×4 D $4 \times 4 + 1$
- 2 Abby multiplied a number by 3 and got an answer of 27. What number did she multiply?
 A 8 B 9
 C 24 D 30
- 3 There are 12 eggs in one carton. How many eggs in 4 cartons?
 A 16 B 24
 C 44 D 48
- 4 What is the missing number in this multiplication?
 $5 \times \square = 35$
 A 5 B 7
 C 9 D 30
- 5 Multiply:
$$\begin{array}{r} 21 \\ \times 3 \\ \hline \end{array}$$

 A 24 B 54
 C 54 D 63
- 6 Billy is tiling a bathroom floor. He has completed two sides. 
 How many tiles will Billy require, in total, to tile the floor?
 A 20 B 25
 C 30 D 36
- 7 What is the missing number in this multiplication?
 $\$7 \times \square = \28
 A 3 B 4
 C 21 D 35
- 8 $3 \times 2 \times 0 = ?$
 A 0 B 5
 C 6 D 7
- 9 What number is missing?
 6, 9, 12, \square , 18, 21, 24
 A 13 B 14
 C 15 D 16

DIVISION


- 1 $24 \div 6 = ?$
 A 4 B 6
 C 12 D 18
- 2 Choose the pair of numbers that are factors of 18.
 A 4 and 4 B 0 and 18
 C 3 and 6 D 10 and 8
- 3 $7 \overline{) 42} = ?$
 A 6 B 8
 C 35 D 49
- 4 $\frac{30}{10} = ?$
 A 3 B 15
 C 20 D 40
- 5 Dad shares \$24 between his three children. How much does each child get?
 A \$4 B \$6
 C \$8 D \$12
- 6 What is the remainder when 27 is divided by 5?
 A 1 B 2
 C 3 D 7
- 7 What is the missing number in this division?

$$\begin{array}{r} 32 \\ 3 \overline{) 9 \square} \end{array}$$



 A 0 B 1
 C 3 D 6
- 8 $\$30.00 \div 6 = ?$
 A \$5.00 B \$5.10
 C \$24.00 D \$50
- 9 How many times can I take 5 from 45 with zero remaining?
 A 8 B 9
 C 10 D 40
- 10 Emily gave half of her cards to Rani. She then gave half of what she had left to her sister. She had 4 cards left. How many cards did Emily start with?
 A 8 B 10
 C 12 D 16

Circle the correct answer.

FRACTIONS AND PERCENTAGES

- 1 How many thirds in one whole?
A 1 B 2 C 3 D 10
- 2 Half of 22 = ?
A 2 B 10 C 11 D 13
- 3 Half of 7 = ?
A 3 B $3\frac{1}{2}$ C 4 D $4\frac{1}{2}$
- 4 $\frac{1}{4} + \frac{1}{2} = ?$
A 1 whole B $\frac{2}{6}$
C $\frac{3}{4}$ D 2 wholes
- 5 How many tenths in 2 wholes?
A 5 B 10 C 12 D 20
- 6 $\frac{1}{2} + \frac{1}{2} + \frac{1}{2} = ?$
A $\frac{1}{6}$ B $\frac{3}{6}$ C $1\frac{1}{2}$ D $2\frac{1}{2}$
- 7 In a test, Sandy got 5 spelling words right out of 10. What percentage did she get right?
A 50% B 25% C 15% D 5%
- 8 What fraction of this shape is **not** shaded?

A $\frac{1}{2}$ B $\frac{2}{3}$ C $\frac{2}{5}$ D $\frac{3}{5}$
- 9 Levi got 75% in a Maths test. How much more did he need to receive full marks?
A 5% B 25%
C 35% D 100%
- 10 Which statement is correct?
A $\frac{3}{4} > \frac{1}{4}$ B $\frac{1}{5} > \frac{1}{2}$
C $\frac{1}{2} < \frac{1}{10}$ D $\frac{1}{3} < \frac{1}{10}$

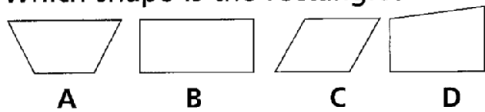
TIME

- 1 James started his homework at 4:15 and finished 30 minutes later. At what time did he finish?
A 5:15 B 5 o'clock
C 4:30 D quarter to 5
- 2 Mr Brown worked for two weeks without a break. How many days was this?
A 7 B 9 C 10 D 14
- 3 What is the fifth month after April?
A August B September
C October D November
- 4 Jemima was born in 1992. How old will she be on her birthday in 2006?
A 12 B 13 C 14 D 15
- 5 What is the time shown on this clock?

A 10 past 9
B quarter past 1
C quarter to 2
D 3 past 9
- 6 A 24-hour clock shows the time as 13:00. What time is this on an analogue clock?
A 1 am B 1 pm C 11 pm D 3 am
- 7 How many days in winter each year?
A 90 B 91 C 92 D 93
- 8 Mrs Buddle lived 13 years longer than her husband, who died in 1981. When did Mrs Buddle die?
A 1994 B 1995 C 1984 D 1968
- 9 This is the time on a digital alarm clock. How else can this time be expressed?

A 20 to 2 B 20 to 3
C quarter to 2 D 10 to 3

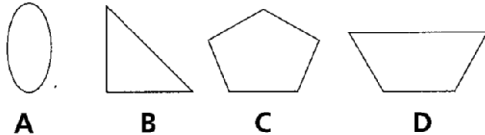
Circle the correct answer.

2D SHAPES

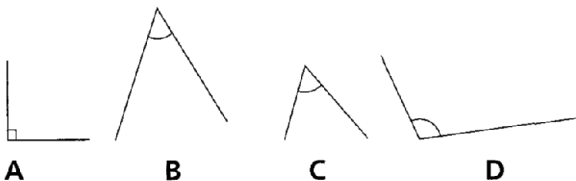
1 Which shape is the rectangle?



2 Which shape contains parallel lines?



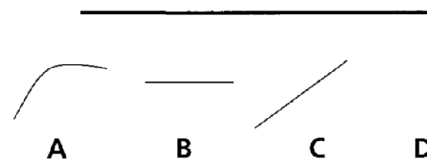
3 Here are four angles. Which angle is the right angle?




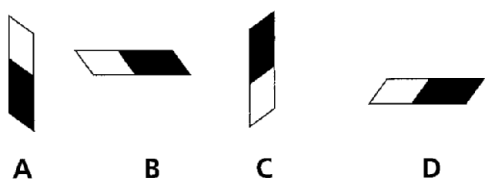
4 How many sides does a hexagon have?

- A 3 B 4 C 6 D 8

5 Which line is perpendicular to the dark line?



6 This shape  was rotated a quarter turn clockwise. What does the shape look like?

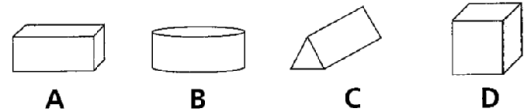


7 Which shape will make an all-over pattern (tessellate) without overlapping or gaps?



3D SHAPES

1 Which shape is the cylinder?

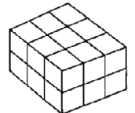


2 I am thinking of a shape. It has 5 faces, 5 corners and 8 edges. What is it?

- A rectangular prism B triangular prism
C square pyramid D cube

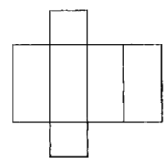
3 How many cubes in this stack?

- A 9 B 10
C 15 D 18

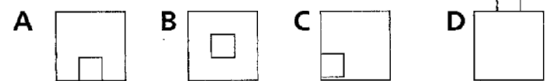
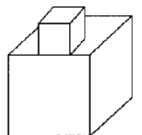


4 What shape can be made from this net?

- A cube
B triangular prism
C square pyramid
D rectangular prism



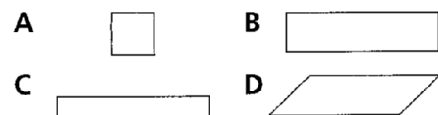
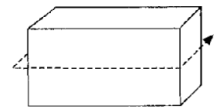
5 What would this tower look like from above?



6 Indira has a tennis ball. A tennis ball is most like:

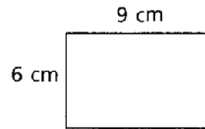
- A a circle. B a cone.
C a sphere. D an oval.

7 This shape is cut in half as shown by the dotted line. What shape will the cut faces be most like?



LENGTH

- What is the best measure for the length of a soccer field?
A metres B centimetres
C millimetres D kilometres
- Len is sitting on a chair at a dining room table. About how high is the seat of the chair from the floor?
A 20 cm B 40 cm
C 60 cm D 80 cm
- How many centimetres in 2.5 m?
A 25 B 205
C 250 D 2500
- What is the perimeter of a 5 cm square?
A 5 cm B 10 cm
C 20 cm D 25 cm
- What is the perimeter of this rectangle?
A 15 cm
B 21 cm
C 24 cm
D 30 cm



- Estimate the length of this line.



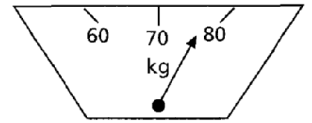
Its length is about:

- A 3 cm B 5 cm
C 8 cm D 12 cm
- What would be the best way to measure exactly the width of a bedroom?
A trundle wheel B tape measure
C paces D school ruler
 - The capacity of a common bucket is about:
A 3 L B 10 L
C 20 L D 25 L
 - Michael lives 3 km from school. How far would he travel in an average school week to attend school?
A 6 km B 12 km
C 15 km D 30 km

MASS AND CAPACITY

- What is the best measure for the mass of margarine in a full tub?
A grams B litres
C milligrams D kilograms
- Erin's mother took 250 g of flour from a 1 kg carton. How much flour was left in the carton?
A 50 g B 250 g
C 750 g D 1750 g

- Mr Yuan stepped on his bathroom scales. Mr Yuan's mass is:
A 70 kg
B 78 kg
C 73 kg
D 80 kg



- A millilitre of water has a mass of one gram. What would be the mass of one litre of water?
A 50 g B 100 g
C 500 g D 1 kg
- Mr Macmillan has 2.5 kg of nails. How much is this in grams?
A 25 g B 250 g
C 1250 g D 2500 g
- Which of these would have a mass of about 50 g?
A an egg B a cricket ball
C a postcard D a tub of ice-cream
- Three students measured their mass on the classroom scales.

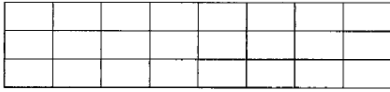
Cindy – 56 kg Sammy – 43 kg Leanne – 61 kg
--

What is the difference in mass between the heaviest and lightest students?

- A 5 kg B 13 kg
C 18 kg D 43 kg

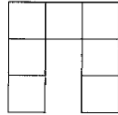
Measurement (Area and volume)

- 1 How many blocks are there on this section of a path?



A 11 B 16 C 21 D 24

- 2 This shape is made up of 1 m squares.



What is its area in square metres?

A 6 B 7 C 8 D 9

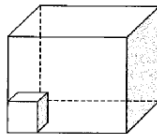
- 3 This is part of a brick wall.



How many bricks will be required for a wall the same length but four rows of bricks high?

A 16 B 18 C 20 D 19

- 4 This open box has sides of 4 cm.



Jack as to fill this box with centicubes.

How many centicubes will he need?

A 16 B 24 C 48 D 64

- 5 What is the surface area of this 1 cm block?



A 1 cm^2 B 3 cm^2
C 4 cm^2 D 6 cm^2

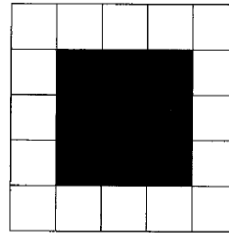
- 6 Which playing space would have the largest area?

A a golf course
B a soccer field
C a basketball court
D a tennis court

- 7 Using the numbers 1, 2, 3 and 4, list these objects from the smallest to the largest (the least volume to the greatest volume).

a blown-up party balloon
 a cherry
 a ping-pong (table tennis) ball
 a cricket ball

- 8 This is a diagram of a tiled area. All the tiles are the same size. How many green tiles were used to tile the area?

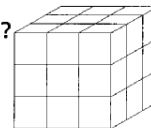


A 4 B 6 C 9 D 12

- 9 Using the numbers 1, 2, 3 and 4, list these objects from the one with smallest surface area to the one with the greatest surface area.

the front of a CD
 a road STOP sign
 a bus ticket
 title page of a paperback book

- 10 How many one-centimetre blocks are there in this stack?



A 15 B 8 C 21 D 7

Explanations on pages 108-109

Pattern & Chance (Patterns, algebra, chance and probability)

Circle the correct answer.

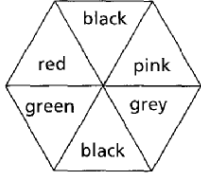
PATTERNS AND ALGEBRA

- 1 $6 \times 4 = 2 \times \square$
 $\square = ?$
 A 8 B 10 C 12 D 24
- 2 Which pattern is an example of adding 2?
 A 3, 6, 12, 24, 48 B 2, 4, 6, 8, 10, 12
 C 2, 3, 4, 5, 6, 7 D 14, 12, 10, 8, 6, 4
- 3 If $18 \div 9 = 2$, then $9 \times \square = 18$.
 $\square = ?$
 A 2 B 9 C 11 D 20
- 4 This is the start of a number pattern.
 3, 4, 6, 9, ...
 If the pattern is continued, what will be the fifth term?
 A 10 B 11 C 12 D 13
- 5 $6 + 5 - \square = 9$
 $\square = ?$
 A 2 B 11 C 12 D 31
- 6 $15 + 15 + 15 + 15 = \square \times 4$
 $\square = ?$
 A 15 B 19 C 29 D 58
- 7 Find the missing number in this number pattern.
- | | | | | |
|---|----|----|----|----|
| 5 | 6 | 8 | 10 | 13 |
| 9 | 10 | 12 | 14 | ? |
- A 15 B 16 C 17 D 18
- 8 Here is a series of stars.
- ```

 ★★★★★★★
 ★★★★★★
 ★★★★★
 ★★★
 ★★
 ???

```
- How many stars should replace the question marks?  
 A 0      B 1      C 2      D 4

### CHANCE AND PROBABILITY

- 1 If a die is tossed once, what is the chance of throwing a 4?  
 A 1 chance in 2      B 1 chance in 4  
 C 1 chance in 5      D 1 chance in 6
- 2 Which term best describes the possibility of cold days in winter?  
 A unlikely      B most likely  
 C not likely      D certain
- 3 Tim has 4 red blocks and 4 green blocks in a bag. Without looking he removes one. What are the chances it is a red block?  
 A 1 in 2      B 1 in 4      C 1 in 8      D 1 in 16
- 4 How many three-digit numbers can be made with 6, 9 and 4?  
 A 3      B 6      C 9      D 19
- 5 Myra made this spinner. She painted it these colours.
- 
- What colour is Myra most likely to get when she spins her spinner?  
 A red      B blue      C green      D black
- 6 3K conducted a survey of large vehicles passing their school in one hour. These were their results.

| Vehicle | Number |
|---------|--------|
| Bus     | 3      |
| Truck   | 12     |
| Van     | 17     |
| Utility | 8      |

The next vehicle to go past is most likely to be a:

- A bus      B truck      C van      D utility

📖 Explanations on pages 112-113

Data (Graphs, tables and data)

Circle the correct answer.

- 1 Here are the scores for a darts competition.

|        |    |
|--------|----|
| David  | 23 |
| Joyce  | 25 |
| Allie  | 52 |
| Lorenz | 23 |
| Melody | 11 |

Which two players got the same scores?

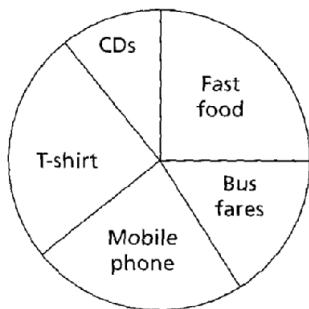
- A David and Joyce B David and Lorenz  
C Joyce and Allie D Joyce and Lorenz

- 2 Refer to the table above.

If Melody has another throw, what must she get to have a higher score than Joyce?

- A 11 B 13 C 14 D 15

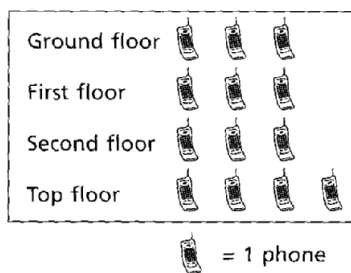
- 3 Jamie received a gift of \$40. This graph shows how he spent his money.



Jamie spent the same amount on fast food as he spent on:

- A CDs B a T-shirt  
C mobile phone D bus fares

- 4 This pictograph shows the number of phones on each floor of a factory.



What is the total number of phones in the factory?

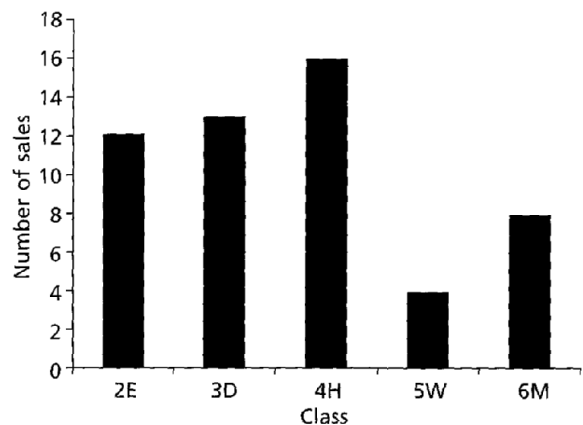
- A 4 B 13 C 14 D 26

- 5 What number does this tally represent?

HHH HHH HHH II

- A 17 B 16 C 15 D 13

- 6 This graphs shows the sales of family portraits by classes at a school fete.



How many portraits did 4H sell?

- A 10 B 12 C 14 D 16

- 7 Refer to the graph above.

How many classes took part in the selling of family portraits?

- A 4 B 5 C 6 D 7

- 8 The results of a survey show the drinks students prefer while playing sport.

| Drink      | Boys | Girls |
|------------|------|-------|
| Water      | 4    | 7     |
| Juice      | 8    | 7     |
| Milk       | 2    | 5     |
| Soft drink | 8    | 1     |

Which drink is most preferred overall?

- A water B milk  
C juice D soft drink

- 9 Refer to the table above.

How many boys were in the survey?

- A 8 B 9 C 20 D 22

👉 Explanations on page 113



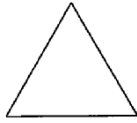
## Numerical reasoning

Circle the correct answer for each question.

- 1 Last Monday, Tuesday and Wednesday, Sean measured 10 mm, 12 mm and 8 mm in his rain gauge. What was the total of the rainfall in the three days?
- A 30 mm                      B 32 mm  
C 36 mm                      D 40 mm
- 2 Sam weighs 34 kg, while Rudi weighs 38 kg. What is the difference in their mass?
- A 68 kg                      B 8 kg  
C 4 kg                        D 36 kg
- 3 Laura is given \$2.00 per week and spends 80 cents. If she saves the remainder each week, how much will she save in four weeks?
- A 30 c                        B \$4.00  
C \$4.80                      D \$1.80
- 4 Mrs James bought 4 kilograms of steak for \$28. Find the cost of each kilogram.
- A \$7                            B \$24  
C \$5.50                      D \$112
- 5 What is the average of 6, 8 and 13?
- A 7                              B 8  
C 9                              D 10
- 6 The sum of three numbers is 25. If two of the numbers are 3 and 12, what is the other number?
- A 40                            B 14  
C 10                            D 8
- 7 The difference between two numbers is 8. If the smaller number is 22, what is the larger number?
- A 30                            B 14  
C 16                            D 32
- 8 Two numbers are multiplied together to give 60. If one number is 12, what is the other number?
- A 5                              B 36  
C 48                            D 6
- 9 When 28 is divided by a certain number, the answer is 7. What is the number?
- A 4                              B 21  
C 35                            D 3
- 10 If the average of three numbers is ten, what is the total of the three numbers?
- A 13                            B 30  
C 33                            D 52

## Measurement – Distance and time

- 1 By estimation, the length of each side of the triangle is closest to



- (A 2 mm                      B 2 cm  
C 5 cm                        D 8 cm)
- 2 Which line is 7 cm in length?  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_
- 3 The width of a car is closest to  
 A 1 m                        B 2 m  
 C 10 m                      D 16 m
- 4 If 25th April is a Tuesday, 11th May occurs on a  
 A Wednesday              B Thursday  
 C Friday                      D Saturday
- 5 Horatio was born on 6th October 1992. How old was he on 8th July 2005?  
 A 12                          B 13  
 C 11                          D 10
- 6 Laura's project is due on 15th June. If she has had three weeks to complete it, when was the project given to her by her teacher?  
 A 24th May                  B 25th May  
 C 26th May                  D 27th May

- 7 An analogue clock is showing the time as 'five to three'. We know that this clock is running seven minutes fast. The correct time is



8

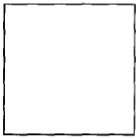
| November |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|
| S        | M  | T  | W  | T  | F  | S  |
|          |    | 1  | 2  | 3  | 4  | 5  |
| 6        | 7  | 8  | 9  | 10 | 11 | 12 |
| 13       | 14 | 15 | 16 | 17 | 18 | 19 |
| 20       | 21 | 22 | 23 | 24 | 25 | 26 |
| 27       | 28 | 29 | 30 |    |    |    |

Bill, Bob and Ben used the calendar to plan a game of golf. Bill was overseas until the 13th, Bob could only play on Saturdays, and Ben was flying to Canada for a fortnight on the last Thursday of the month. On what day will the group play golf?

- A 19th November              B 26th November  
 C 25th November              D 12th November
- 9 Using the calendar in question 8, what day of the week is Christmas Day in this year?  
 A Thursday                      B Friday  
 C Saturday                        D Sunday
- 10 A freight train travels 40 kilometres in 30 minutes. The average speed of the train is  
 A 80 km/h                        B 60 km/h  
 C 40 km/h                        D 20 km/h

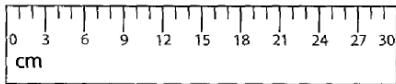
## Measurement – Perimeter, area and mass

- 1 By estimation, the perimeter of the square is closest to



- A 8 cm                      B 2 cm  
C 24 cm                     D 36 cm

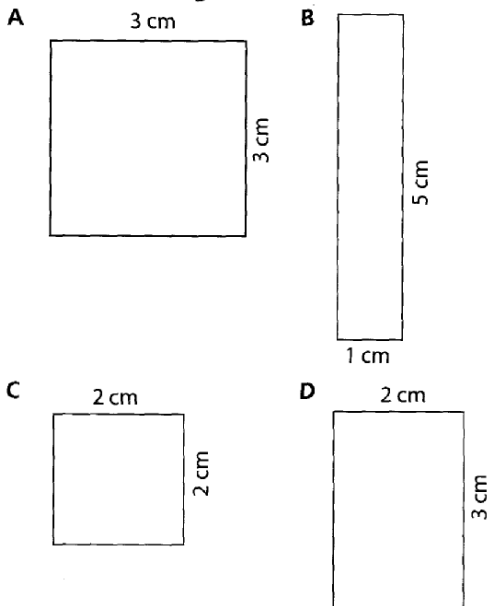
- 2 The diagram shows a normal school ruler.



The perimeter of the ruler is closest to

- A 60 cm                     B 30 cm  
C 34 cm                     D 72 cm

- 3 Which has the largest area?



- 4 A sequence is formed by adding squares.



Fig. 1



Fig. 2



Fig. 3

?

Fig. 4

If the perimeter of figure 3 is 8 units, the perimeter of figure 4 would be

- A 10 units                    B 11 units  
C 12 units                    D 14 units
- 5 The mass of an orange is closest to  
A 20 g                        B 200 g  
C 600 g                      D 1.2 kg
- 6 Half a kilogram is  
A 500 g                      B 200 g  
C 100 g                      D 750 g
- 7 If a coin has a mass of 50 grams and a medallion weighs 80 grams, what is the mass of 2 coins and 3 medallions?  
A 130 g                      B 260 g  
C 340 g                      D 240 g
- 8 Fran pours out 420 grams from a one kilogram bag of sugar. How much is left in the packet?  
A 420 g                      B 80 g  
C 580 g                      D 680 g
- 9 A smaller piece 50 cm long is removed from a six metre length of string. What length of string remains?  
A 5 m                        B  $5\frac{1}{2}$  m  
C  $4\frac{1}{2}$  m                      D 4 m
- 10 A rectangle has a perimeter of 12 cm and the length of one of the sides is 4 cm. The length of the other side is  
A 8 cm                        B 2 cm  
C 4 cm                        D 3 cm

Numeracy skills

- ① The numeral for four thousand and twenty-three is

|        |          |
|--------|----------|
| A 4203 | B 4023   |
| C 4230 | D 40 203 |
  
- ② 60 050 is

  - A sixty thousand and fifty
  - B six thousand and fifty
  - C sixty thousand five hundred
  - D six hundred thousand and fifty
  
- ③ 275 is written in Roman numerals as

|          |         |
|----------|---------|
| A DDLXXV | B CCXXV |
| C CCLXXV | D CCLXV |
  
- ④ What is the remainder when 2006 is divided by 5?

|     |     |
|-----|-----|
| A 0 | B 1 |
| C 2 | D 3 |
  
- ⑤ The numeral for  $5 \times 10\ 000 + 4 \times 100 + 2 \times 10$  is

|          |          |
|----------|----------|
| A 5042   | B 50 402 |
| C 50 420 | D 542    |
  
- ⑥ If  $1 + 2 \times 3 + 4 = 11$ , then  $1 \times 2 \times 3 + 4 =$

|      |      |
|------|------|
| A 8  | B 10 |
| C 12 | D 14 |

- ⑦ 3 is a factor of

|      |      |
|------|------|
| A 8  | B 12 |
| C 10 | D 14 |
  
- ⑧ Find the answer to the question  $3 \times (4 + 2)$ .

|      |      |
|------|------|
| A 18 | B 14 |
| C 10 | D 8  |
  
- ⑨ Which calculation gives the largest value?

|                     |                     |
|---------------------|---------------------|
| A $4 + 2 \times 3$  | B $4 + 8 \times 2$  |
| C $10 - 2 \times 3$ | D $16 - 5 \times 2$ |
  
- ⑩

$$\begin{array}{r} 2 \ ? \ 5 \ + \\ 4 \ 2 \ 6 \\ \hline 6 \ 7 \ 1 \end{array}$$

Replace ? with a number to make the sum correct.

|     |     |
|-----|-----|
| A 4 | B 5 |
| C 6 | D 7 |

## Number sequencing

- 1 Find the next number in the following sequence.

4, 7, 10, \_\_\_\_\_

- A 11                                      B 12  
C 13                                      D 14

- 2 51, 44, 37, \_\_\_\_\_, 23

The missing number in the following sequence is

- A 36                                      B 30  
C 28                                      D 29

- 3 Complete the following sequence.

16, 4, 1, \_\_\_\_\_.

- A 2                                      B  $\frac{1}{2}$   
C  $\frac{1}{3}$                                       D  $\frac{1}{4}$

- 4 Find the missing number in the table.

|   |   |   |    |    |
|---|---|---|----|----|
| 0 | 1 | 2 | 3  | 4  |
| 2 | 5 |   | 11 | 14 |

- A 6                                      B 7  
C 8                                      D 9

- 5 25, 36, \_\_\_\_\_, 64, 81

The missing number in the sequence is

- A 49                                      B 50  
C 52                                      D 55

- 6 Which calculation would give the missing number in the following sequence?

5, 9, 13, \_\_\_\_\_, 21

- A  $4 \times 3 + 5 \times 1$                       B  $3 \times 5 + 2 \times 2$   
C  $6 \times 4 - 5 \times 2$                       D  $2 + 2 \times 3$

7

|   |    |
|---|----|
| 2 | 10 |
| 3 | 14 |
| 4 | X  |
| 5 | 22 |
| 6 | 26 |

The value of X is

- A 4                                      B 8  
C 18                                      D 20

- 8 Look at the following sequence of sums.

$1 + 3$ ,  $3 + 5$ ,  $5 + 7$ , \_\_\_\_\_,  $9 + 11$ .

The missing sum will add to

- A 12                                      B 14  
C 16                                      D 18

9

|   |    |    |   |    |
|---|----|----|---|----|
| 3 | 5  | 6  | 8 | 10 |
| 6 | 10 | 12 |   | 20 |

The missing number in the table is

- A 15                                      B 16  
C 13                                      D 14

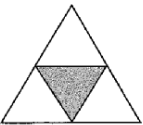
- 10 Look at the following sequence.

1, 3, 6, 10, \_\_\_\_\_, \_\_\_\_\_, 28, 36.

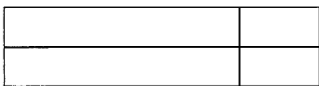
The missing numbers are

- A 15 and 21                              B 14 and 20  
C 14 and 21                              D 15 and 22

Space and geometry

1  The shape is made up of four identical triangles. How many axes of symmetry are there?

- A 3
- B 2
- C 1
- D 0

2 

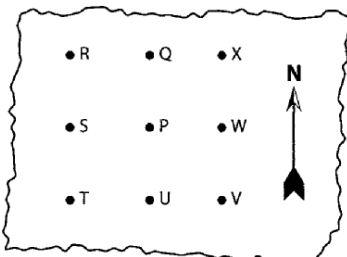
- Count the number of rectangles in the shape.
- A 4
  - B 5
  - C 7
  - D 9

3 Which of the following has more than one axis of symmetry?



4 How many faces has a hexagonal prism?

- A 8
- B 10
- C 12
- D 16

5 

The map shows the location of nine towns. From P, Darren travelled south to a second town. He then travelled north-west to arrive at a third town. This town was

- A S
- B W
- C T
- D V

6 The net of a cylinder is made up of two circles and

- A a rectangle
- B an octagon
- C a hexagon
- D a triangle

7 Which of the following is *not correct* about a cube?

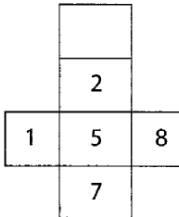
- A It has six faces.
- B It has eight corners.
- C It is a solid.
- D It has ten edges.

8 A special solid is formed when the bases of two identical square-based pyramids are glued together. How many faces will the new solid have?

- A 8
- B 10
- C 12
- D 14

9 A map has a scale of 1 cm = 20 km. If the distance from Whereami to Knowidea is 80 km, how far apart are the towns on the map?

- A  $4\frac{1}{2}$  cm
- B 4 cm
- C 7 cm
- D 5 cm

10 

The net of a rectangular prism is drawn and each face is numbered so that when built, the prism will have opposite faces adding to the same number. The missing number is

- A 11
- B 6
- C 4
- D 9

Chance and data

Circle the correct answer for each question.

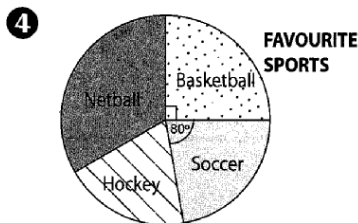
The table lists the number of people living in the houses in our street.

|        |   |   |   |   |   |   |
|--------|---|---|---|---|---|---|
| People | 0 | 1 | 2 | 3 | 4 | 5 |
| Houses | 1 | 3 | 4 | 5 | 2 | 1 |

Use the table to answer questions 1 to 3.

- 1 The number of houses in our street is  
 A 5                                      B 15  
 C 16                                      D 20
- 2 How many people live in our street?  
 A 15                                      B 16  
 C 32                                      D 39
- 3 If a house is chosen at random, what is the most likely number of people living in that house?  
 A 3                                          B 2  
 C 5                                          D 1

Thirty-six Year 4 students were surveyed. The graph represents their favourite sports. Use the graph to answer questions 4 to 6.

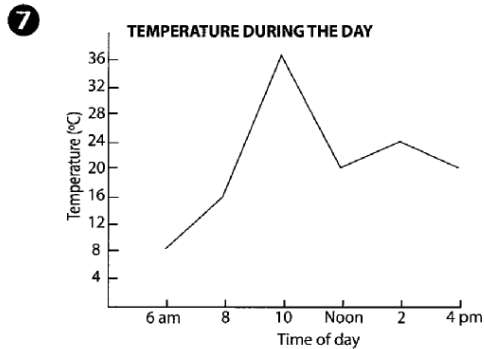


What was the most popular sport?

- A basketball                              B soccer  
 C hockey                                      D netball
- 5 How many students chose basketball?  
 A 9                                          B 10  
 C 12                                      D 15

- 6 If half the students who chose soccer were girls, how many boys chose soccer?  
 A 2                                          B 3  
 C 4                                          D 6

The following graph is to be used to answer questions 7 and 8. It represents the temperature at Settlers Point throughout one day.



Throughout the time period identified, how many times was the temperature 24°C?

- A 1                                          B 2  
 C 3                                          D 4
- 8 Over the ten-hour period, what was the range of temperatures?  
 A 28°C                                      B 16°C  
 C 24°C                                      D 32°C

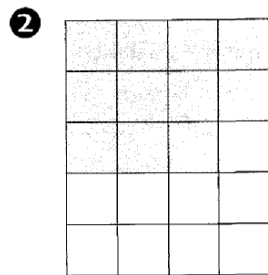
Questions 9 and 10 involve two normal dice numbered 1 to 6. The dice are rolled and the numbers shown on the uppermost face are added together.

- 9 Which of the following is a possible sum?  
 A 1                                          B 8  
 C 13                                      D 36
- 10 Which of the following is the most likely sum?  
 A 2                                          B 3  
 C 7                                          D 12

## Fractions, decimals and percentages

- 1 Three-twelfths is the same as

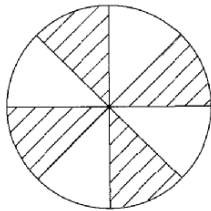
A  $\frac{3}{4}$                                               B  $\frac{1}{4}$   
 C  $\frac{1}{3}$                                               D  $\frac{1}{2}$



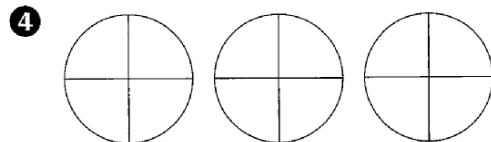
Shannon needs to shade four fifths of the rectangle. She has already started. How many more squares have to be shaded?

A 3                                              B 4  
 C 5                                              D 6

- 3 What fraction of the circle is left unshaded?



A  $\frac{1}{2}$   
 B  $\frac{1}{3}$   
 C  $\frac{1}{4}$   
 D  $\frac{1}{5}$



Use the diagram to help you answer this question:  $3 - 1\frac{3}{4} = ?$

A  $\frac{1}{4}$                                               B  $1\frac{1}{4}$   
 C  $1\frac{1}{2}$                                               D  $1\frac{3}{4}$

- 5 Rowan buys a bag of lollies that contains 24 jellybeans. On Saturday, he eats half of them and then he eats half of the remainder on Tuesday. How many jellybeans remain?

A 2                                              B 6  
 C 10                                              D 12

- 6 Look at this sequence: 2, 1,  $\frac{1}{2}$ ,  $\frac{1}{4}$ , \_\_\_\_\_.

The next in the sequence is

A  $\frac{3}{4}$                                               B  $\frac{1}{6}$   
 C  $\frac{1}{8}$                                               D  $\frac{1}{10}$

- 7 27 minus 1.6 is

A 11                                              B 1.1  
 C 26.4                                              D 25.4

- 8 What is the missing number in the sequence 2.4, 2.8, \_\_\_\_\_, 3.6, 4.

A 3                                              B 3.2  
 C 3.24                                              D 3.4

- 9 Which of the following lists are arranged from smallest to largest?

A 0.2, 0.6, 1.2, 1.4  
 B 0.4, 3, 0.47, 6.5  
 C 1.05, 1.25, 1.09, 1.99  
 D 0.63, 0.603, 0.64, 0.643

- 10 Twenty-five per cent of the 48 passengers on a train are females. How many males are on the train?

A 12                                              B 24  
 C 30                                              D 36