

Name: \_\_\_\_\_ Date: \_\_\_\_\_

## Number and place value

1 Which of the following is a composite number?

**A**

**A** 16

**B** 5

**C** 11

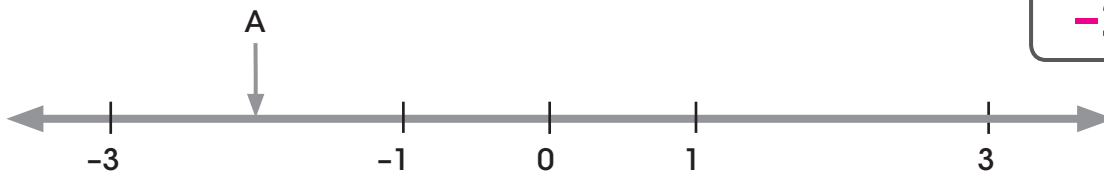
**D** 23

2 There are 25 rows of 60 parking spaces in the car park.

If the car park is full except for 17 empty spaces, how many cars are in the car park?

**1483 cars**

3 The letter **A** is located at what position on the number line?



**-2**

## Fractions and decimals

4 Find:

$$1\frac{2}{3} + \frac{1}{4} = \frac{5}{3} + \frac{1}{4} = \frac{20}{12} + \frac{3}{12} = \frac{23}{12} = 1\frac{11}{12}$$

5 Find:

$$5 - 1\frac{2}{5} = \frac{25}{5} - \frac{7}{5} = \frac{18}{5} = 3\frac{3}{5}$$

6 Find:

$$\frac{3}{5} \text{ of } 120 = \mathbf{72}$$

7 Find the total length of 10.5m, 6.35m and 7m.

**23.85 m**

8 Find the difference between 7.36 and 8.52.

**1.16**

9 Round 6.081 to 1 decimal place.

**6.1**

10 Find:

$7.86 \times 4 =$

**31.44**

11 Find:

$282 \div 8 =$

**35.25**

12  $92.117 \times 1000 =$

A 9.2117

B 921.17

C 9211.7

**D 92117**

13  $47.61 \div 100 =$

A 0.04761

**B 0.4761**

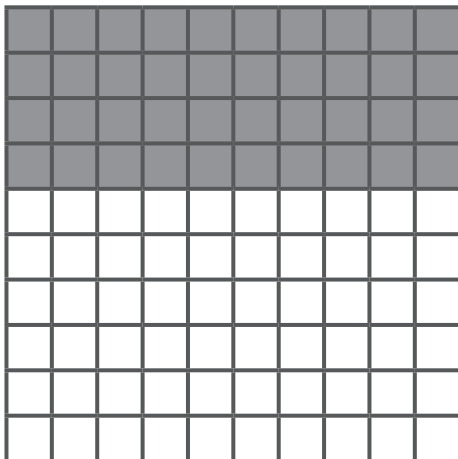
C 4.761

D 476.1

14 The shaded part of the grid represents:

**40**

%



15  $\frac{2}{5} =$

A 5%

B 20%

C 25%

**D 40%**

### Money and financial mathematics

16 A hat is on sale. It costs \$35 at full price, but is marked 25% off. What is the sale price of the hat?

**\$26.25**

## Patterns and algebra

17 Continue the pattern:

$$\frac{1}{8}, \frac{3}{8}, \frac{6}{8}, \frac{10}{8} (1\frac{1}{4}), \frac{15}{8} (1\frac{7}{8}), \frac{21}{8} (2\frac{5}{8}), \frac{28}{8} (3\frac{1}{2})$$

18 Find:

$$(12 \times 10) - (6 \div 2) + 9 = \boxed{126}$$

## Using units of measurement

19 Express 9.25L in millilitres (mL)

**9250 ml**

20 Which has the greater area?

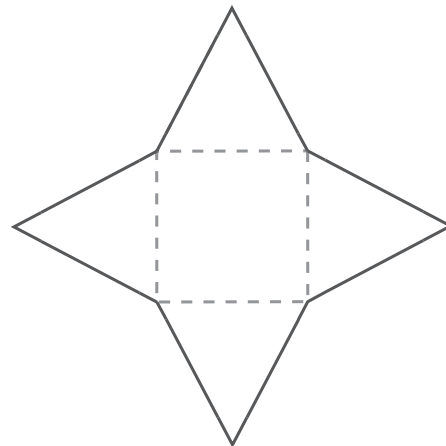
**A** A square with side lengths of 5cm

B A rectangle with side lengths of 3cm and 8cm

## Shape

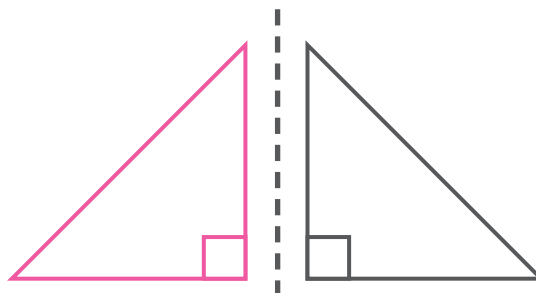
21 The following net makes what shape?

**square-based pyramid**

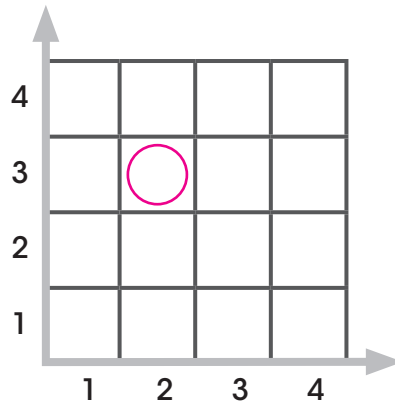


## Location and transformation

22 Reflect the triangle to the left.



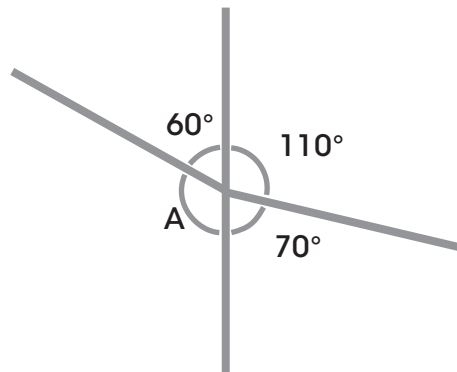
- 23** Draw a circle at location (2, 3).



### Geometric reasoning

- 24** What is the value of angle **A**?

120°



### Chance

- 25** What is the chance of selecting a black 10 from a standard pack of cards?

$\frac{2}{52}$  or  $\frac{1}{26}$

### Data representation and interpretation

- 26** Of 200 children surveyed, 60 said they did not play after-school sports. What percentage of children did not play after-school sports?

30%

- 27** At what time was the distance the greatest?

24 s

