



STATEWIDE ASSESSMENT

AIM 2007

Achievement Improvement Monitor

**Year
5**

MATHEMATICS TEST

STUDENT DETAILS

TEST INSTRUCTIONS

1. You must do your own work.
2. Do not speak to other students during the test.
3. Raise your hand if you need to speak to the teacher.
4. Follow all directions given to you by the teacher.
5. All questions must be answered using the pencil you have been given. If you need to change an answer, carefully erase it and write another answer.
6. You are NOT permitted to use a calculator of any type.
7. To confirm you have the correct booklet, print your name below.

Print your name here:

YOU HAVE 45 MINUTES TO COMPLETE THIS TEST

Practice Questions

P1

How many days are there in one week?

Shade one bubble

- ☐ 2
- ☐ 5
- ☐ 7
- ☐ 10

P2

$$5 \times 3 = \boxed{} \boxed{}$$

Write one number in each box

P3



Write one number in the box

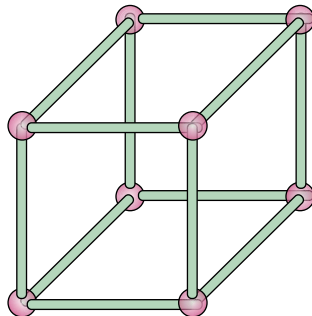
How many of these shapes are circles?

You have 45 minutes to complete this test.
You are NOT permitted to use a calculator of any type.

1

Ali made this model using straws and plastic balls.

Shade one bubble



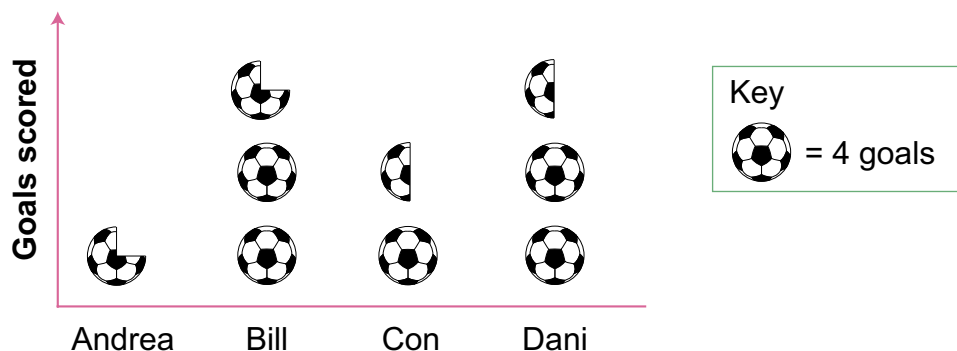
How many straws and how many plastic balls did Ali use to make the model?

- ☐ 8 straws and 6 plastic balls
- ☐ 8 straws and 8 plastic balls
- ☐ 12 straws and 6 plastic balls
- ☐ 12 straws and 8 plastic balls

Questions 2 and 3 refer to the following information.

Shade one bubble

The pictograph shows how many goals were scored by some players in a school soccer team in one season.



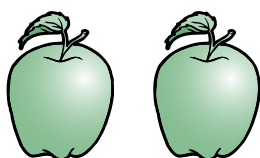
2 Which player scored 11 goals?

Andrea ☐ Bill ☐ Con ☐ Dani ☐

3 How many more goals did Dani score than Andrea?

3 ☐ 4 ☐ 6 ☐ 7 ☐

4 Jira had two apples. She cut each apple into quarters.



How many quarters did she have in total?

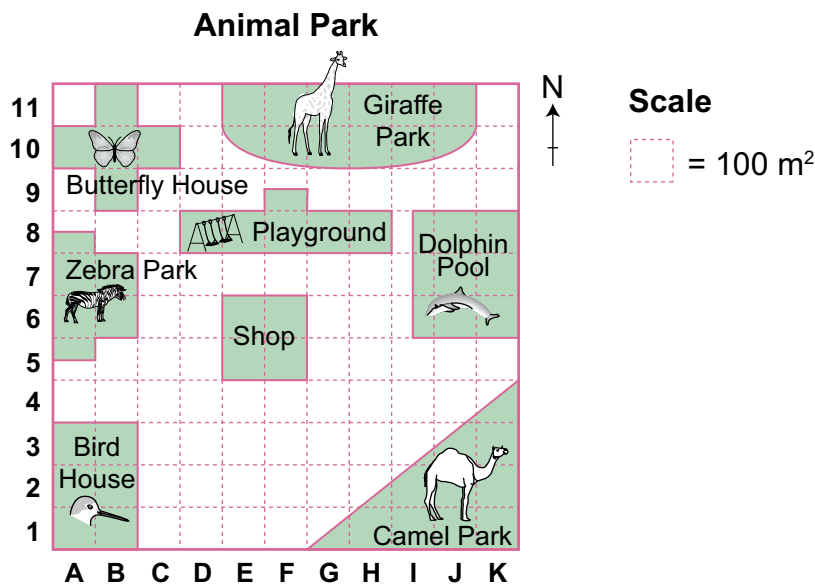
2 ☐ 4 ☐ 8 ☐ 16 ☐

5 Which clock shows that the time is a quarter to nine?

9:45 ☐ 8:15 ☐ 9:15 ☐ 8:45 ☐

Questions 6 to 8 refer to the following information.

Shade one bubble



6 Which of the following is a possible grid reference for the Camel Park?

- | | | | |
|-----------------------|-----------------------|-----------------------|-----------------------|
| E1 | H4 | J5 | K3 |
| <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

7 Which place has the same area as the Butterfly House?

- | | | | |
|-----------------------|-----------------------|-----------------------|-----------------------|
| Zebra Park | Playground | Bird House | Shop |
| <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

8 Which place is south-west of the shop?

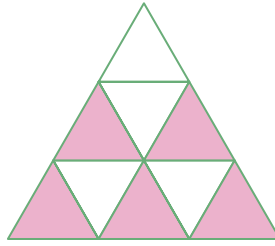
- | | | | |
|-----------------------|-----------------------|-----------------------|-----------------------|
| Dolphin Pool | Bird House | Camel Park | Butterfly House |
| <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

9 Helen is saving to buy a new washing machine that costs \$430.
She has already saved \$80.
How much more money does Helen need to save to buy the washing machine?

- | | | | |
|-----------------------|-----------------------|-----------------------|-----------------------|
| \$320 | \$350 | \$422 | \$510 |
| <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

10

What fraction of the shape is shaded?

Shade one
bubble

$\frac{1}{4}$

☐

$\frac{1}{5}$

☐

$\frac{4}{5}$

☐

$\frac{5}{9}$

☐

11

In January this year Daniel was 9 years old and Paula was 11 years old.

Which one of the following **cannot** be true in January next year?

- ☐ Paula will be 12 years old.
☐ Paula will be younger than Daniel.
☐ Daniel will be two years younger than Paula.
☐ Daniel will be one year older than he is now.

12

Ben got on the bus at 3:46 pm and got off it at 4:12 pm.

He was on the bus for

12 minutes

☐

14 minutes

☐

26 minutes

☐

58 minutes

☐

13

Adele buys a box of 6 pens for a total cost of \$5.40.

What is the cost of each pen?

\$0.60

☐

\$0.90

☐

\$1.00

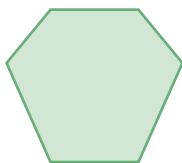
☐

\$1.40

☐

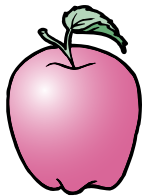
14

This shape is



- ☐ an octagon.
☐ a hexagon.
☐ a pentagon.
☐ a parallelogram.

15



Apples: 40c each



Juice: 65c per box

Shade one bubble

Mark buys 4 apples and 5 boxes of juice.

What is the total cost of these items?

\$4.65

☐

\$4.80

☐

\$4.85

☐

\$5.05

☐

16

Lucas needs to buy 70 candles for his grandfather's cake.

The candles are sold in packets of 12.

What is the least number of packets Lucas needs to buy?

Write one number in the box

17

$7 \times 8 =$

Write one number in each box

18

$345 - 160 =$

185

☐

225

☐

460

☐

505

☐

Shade one bubble

19

Josh has 6 red marbles and 6 blue marbles.

He puts 4 of the 12 marbles into a bag.

When a marble is taken from the bag, it is more likely to be red than blue.

The bag could contain

☐

1 blue and 3 red marbles.

☐

2 blue and 2 red marbles.

☐

3 blue and 1 red marble.

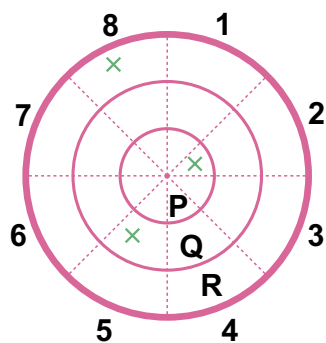
☐

4 blue and 0 red marbles.

20

Andy drew three crosses on a circular board.
One of the crosses is in region **P2**.

Shade one
bubble



In which regions are the other two crosses drawn?

- ☐ **P8** and **P5**
☐ **Q2** and **R3**
☐ **R2** and **Q5**
☐ **R8** and **Q5**

21

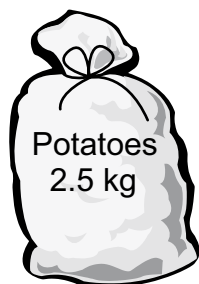
$$14.63 + 3.20 =$$

- ☐ 14.95
☐ 17.65
☐ 17.83
☐ 46.63

22

A bag of potatoes has a mass of 2.5 kilograms.

What is the mass, in grams, of the bag of potatoes?

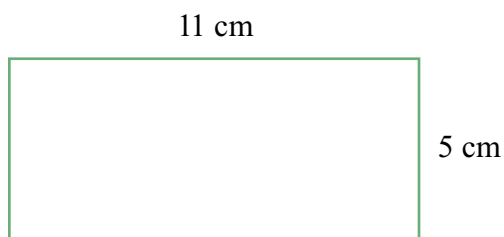


- ☐ 25 g
☐ 250 g
☐ 2500 g
☐ 25 000 g

23

What is the perimeter of the rectangle?

Write one number
in each box

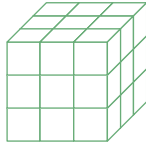


--	--

 cm

24

Joel started with a large cube made up of small cubes.



Shade one
bubble

After he removed some small cubes, he was left with this shape.



How many small cubes did he remove?

6



14



15



18



25

Nicola has 15 stickers. Rita has 25 stickers.

Which of the following would result in both girls having the same number of stickers?

- ☐ Nicola gives Rita 5 of her stickers.
- ☐ Rita gives Nicola 5 of her stickers.
- ☐ Nicola gives Rita 10 of her stickers.
- ☐ Rita gives Nicola 10 of her stickers.

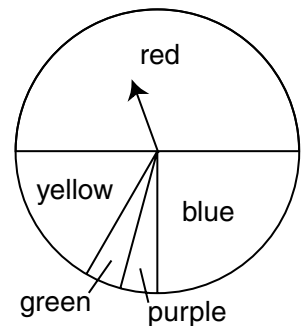
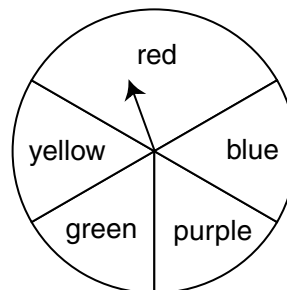
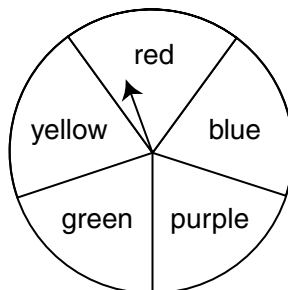
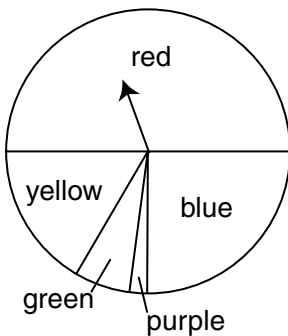
26

Maria has made a spinner using five colours.

When she spins the arrow on her spinner:

- it is twice as likely to land on red as it is on blue
- it is three times as likely to land on red as it is on yellow
- it is equally as likely to land on purple as it is on green.

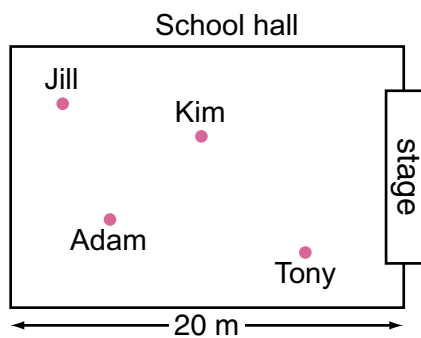
Which spinner is Maria's?



27

Four students are in a school hall.
The length of the hall is 20 metres.

Shade one
bubble



Who is approximately 15 m away from the stage?

- ☐ Jill
☐ Kim
☐ Tony
☐ Adam

28

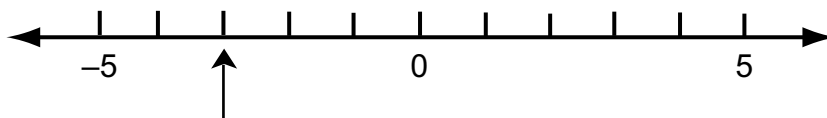
Given that

$$24 = 288 \div 12$$

which one of the following is also true?

- ☐ $288 = 24 \times 12$
☐ $288 = 24 \div 12$
☐ $288 \times 12 = 24$
☐ $288 = 12 \div 24$

29

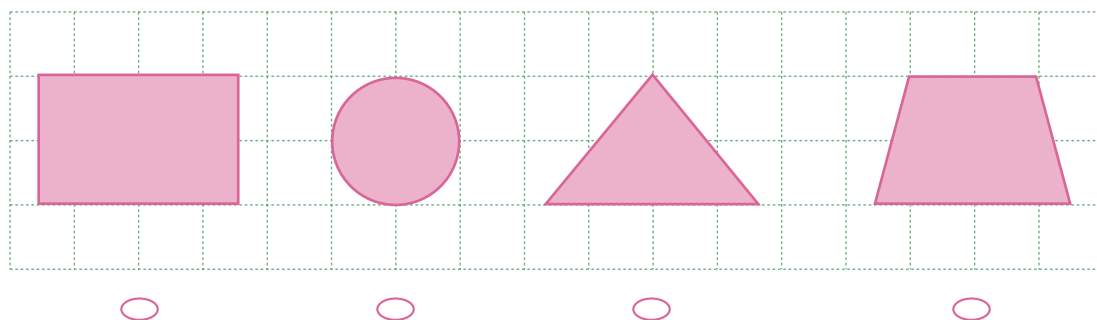


On the number line the arrow shows the position of

- 3 -3 7 -7
☐ ☐ ☐ ☐

30

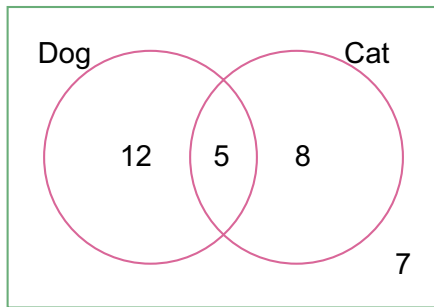
Which one of these shapes has **exactly two** lines of symmetry?



31

The Venn diagram shows how many students in a group have a dog, a cat, both or neither as a pet.

Shade one bubble



How many students have a cat as a pet?

- ☐ 5
- ☐ 8
- ☐ 13
- ☐ 20

32

30.1×0.97 is closest to

- ☐ 0.003
- ☐ 3
- ☐ 30
- ☐ 3000

33

$4.0 - 1.4 =$

- 3.6 3.4 2.6 2.4
- ☐ ☐ ☐ ☐

34

Simone starts with a number.
She multiplies it by 6, then divides it by 8. The answer is 9.
What number did she start with?

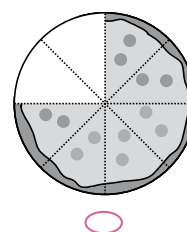
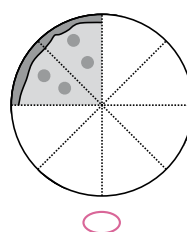
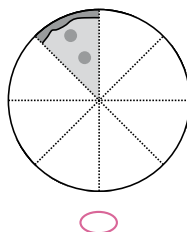
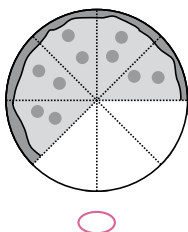
- 6 8 9 12
- ☐ ☐ ☐ ☐

35

Fiona and Dave shared a pizza.

Fiona ate $\frac{1}{8}$ of the pizza and Dave ate $\frac{1}{4}$ of the pizza.

Which picture shows how much pizza was left over?



36

This table shows the results for four students who played in a handball challenge.

Shade one bubble

Name	Wins	Losses
Sarah	5	3
Jillian	3	6
Caitlin	4	4
Alannah	8	4

Who won half the games she played?

- ☐ Sarah
☐ Jillian
☐ Caitlin
☐ Alannah

37

$603 \div 9 =$

--	--

Write one number in each box

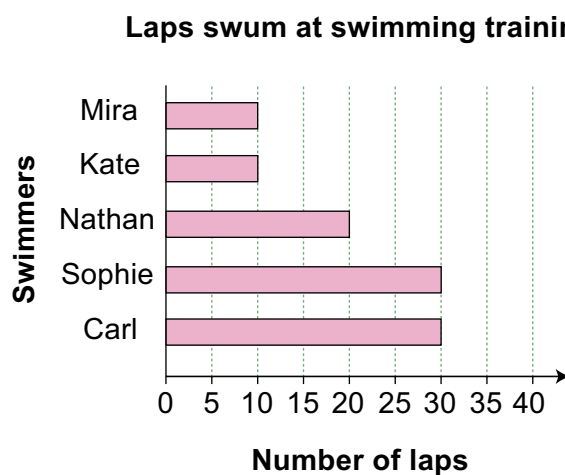
38

$25\% \text{ of } 140 =$

--	--

39

This graph shows the number of laps swum by five swimmers at training.

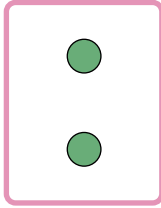


What was the average (mean) number of laps swum by the five swimmers?

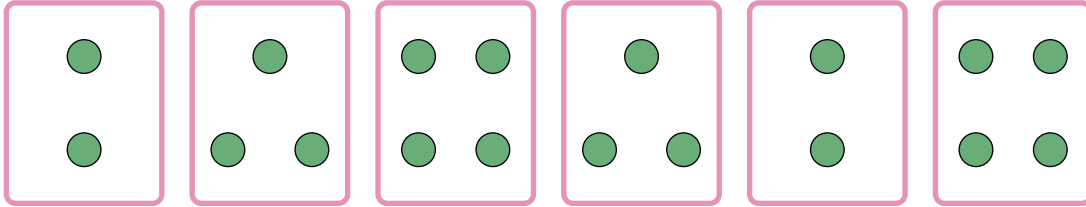
--	--

40

Cathy has this card.

Shade one
bubble

Sam is holding these cards.



Without looking, Cathy picks one of Sam's cards.

What is the probability that Cathy picks a card that matches her card?

$\frac{1}{6}$



$\frac{1}{3}$



$\frac{1}{12}$



$\frac{1}{36}$



41

A car travels at an average speed of 75 km per hour.

How long will it take to travel 50 km?

- ☐ 40 minutes
- ☐ 50 minutes
- ☐ 75 minutes
- ☐ 90 minutes