YEAR
5
2016

NUMERACY

STUDENT TO COMPLETE

Please print your first name and last name below. Write in capital letters.

_____

FIRST NAME

_____

LAST NAME

Are you a boy or girl?   ◯ boy   ◯ girl
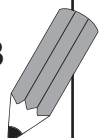
What is your date of birth?   ____ /____ /_____

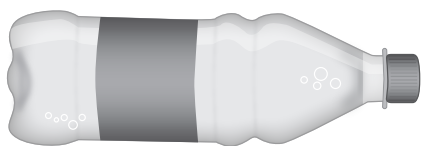What is the name of your school? _____

50 min

Time available for students to complete test: 50 minutes

Use 2B or HB pencil **only**

YEAR 5 NUMERACY

1 Maria gets 10 cents for every plastic bottle she recycles.

Maria recycles 19 bottles.

How much money will Maria get?

19 cents	$1.90	$19	$190
○	○	○	○

2 Some children were asked to name their favourite sport.

The table below shows their responses.

Favourite sport	Number of students
Basketball	⊞⊞ ⊞⊞ ⊞⊞ ⊞⊞ ‖
Tennis	⊞⊞ ⊞⊞
Hockey	⊞⊞ ⊞⊞ ⊞⊞

How many children were asked this question altogether?

3 Stef's book has more than 324 pages but less than 342 pages.

Which of these could be the number of pages in Stef's book?

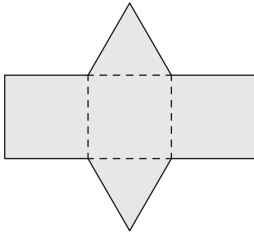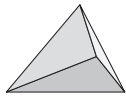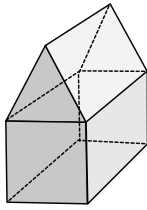| 322	326	344	346
○	○	○	○

4   Jack folded this piece of paper along the dotted lines to make a model.

Which of these models did Jack make?

○   ○   ○   ○
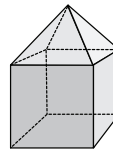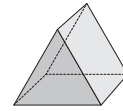
5   This scale is balanced.

13 grams

?

28 grams
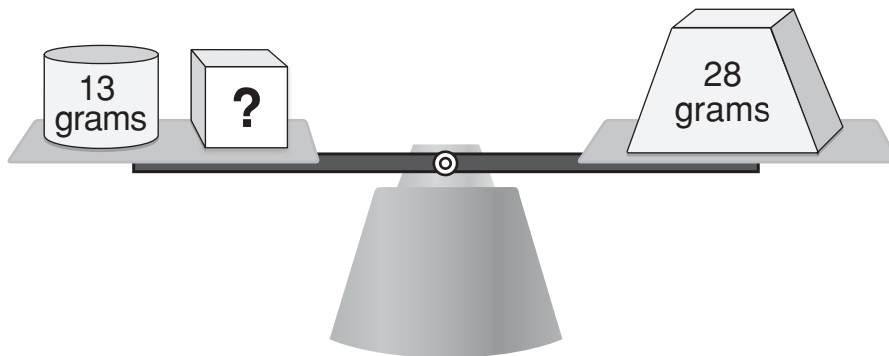
What is the weight of the cube?

grams

6   Eva travelled *four thousand and thirty-seven* kilometres from Darwin to Sydney.

Darwin

Sydney

This distance can be written as:

437 km	4037 km	4370 km	40 037 km
○	○	○	○

**7**   Henry uses the number sentence 12 × 6 = 72 to solve a problem.

Which problem could he solve with this number sentence?

○   Henry has 12 apples and gets 6 more.
How many apples does he have now?

○   Henry has 12 apples. He shares them with 6 friends.
How many apples does each friend get?

○   Henry has 12 friends. He buys 6 apples for each friend.
How many apples does he buy?

○   Henry has 12 apples and gives 6 away.
How many apples does he have now?

8   Sam drew one straight line on a shape.

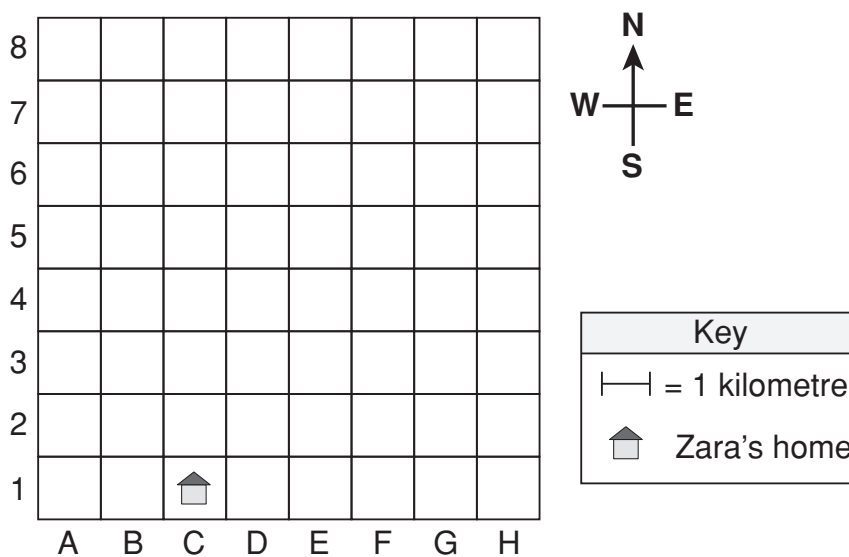The line divided the shape into two squares.

Which of these could have been Sam's shape?

○	○	○	○
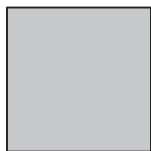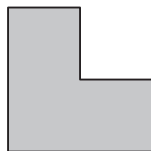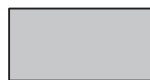
9 Finn played two games.

In game 1 he scored 55 points.

In game 2 he scored 45 points.

Which number sentence could be used to find Finn's total score?

- ○ 50 + 40 = 90
- ○ 60 + 50 = 110
- ○ 50 + 40 + 5 = 95
- ○ 50 + 40 + 10 = 100

10 Zara's home is shown on the map.

Each day Zara rides 4 kilometres east and 2 kilometres north from home to school.

In which cell on the map is Zara's school?

C5	E3	G3	E5
○	○	○	○

11 Anna opens a savings account. She deposits $4 in the first week.

She then deposits twice as much money each week as she did the previous week.

The total amount of money in the account is

- ○ always odd.
- ○ always even.
- ○ sometimes odd and sometimes even.

12 At the zoo Tran saw 8 koalas, 16 kangaroos and 12 emus.

In the tables below, X = 4 animals.

Which table correctly shows the number of animals Tran saw at the zoo?

Animals	Number
Koala	X X
Kangaroo	X X X X
Emu	X X X

$\bigcirc$

Animals	Number
Koala	X X
Kangaroo	X X X
Emu	X X X X

$\bigcirc$

Animals	Number
Koala	X X X X X X X X
Kangaroo	X X X X X X X X X X X X X X X X
Emu	X X X X X X X X X X X X

$\bigcirc$

Animals	Number
Koala	X X
Kangaroo	X X X X
Emu	X X X X

$\bigcirc$

13 A ladder is leaning up against a wall.
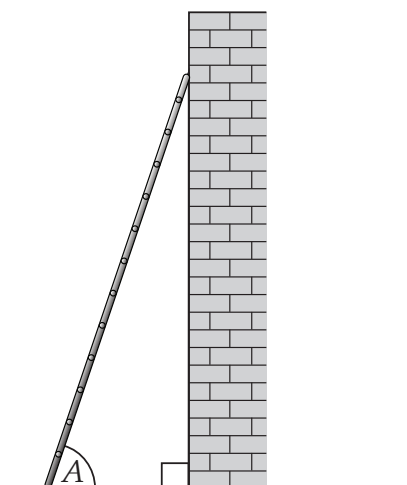
The angle marked *A,* between the ladder and the ground is

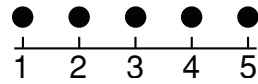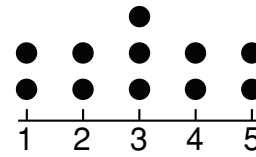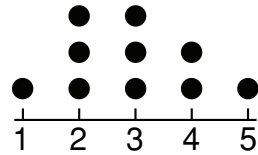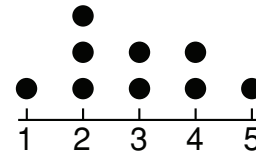more than 90 degrees.   equal to 90 degrees.   less than 90 degrees.

$\bigcirc$ $\bigcirc$ $\bigcirc$

14 Ten people were each asked how many times they went to the supermarket last month.

The results were: 3, 4, 2, 2, 2, 3, 1, 5, 3, 4

Select the dot plot that correctly displays this data.

15 Mia started with 890 millilitres of water in a container.

She then poured some water into the glass.
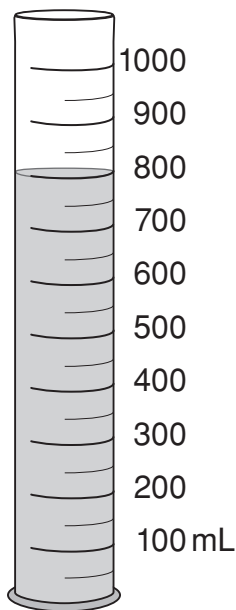
How much water did Mia pour into the glass?

| 50 millilitres | 90 millilitres | 200 millilitres | 800 millilitres |

16 Shana buys the items shown.

$3.50 $6.10 $14.40

She gives the shop owner $30.

How much change should Shana get?

$6	$7	$24	$54
○	○	○	○

17 Max made these four pictures by painting some squares grey on these grids.

All the small squares in the grids are the same size.

Which of these grids has the largest area painted grey?

○	○	○	○
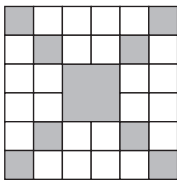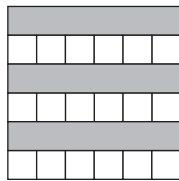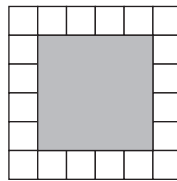
18 Rani is comparing the weights of four different objects using a balance scale.
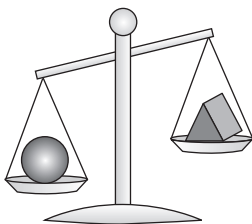
Which object is the heaviest?

○	○	○	○

19 Cilla has 35 twenty-cent coins in her purse.

How much money does she have altogether?

$70	$35.20	$35	$7
◯	◯	◯	◯

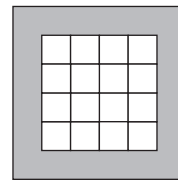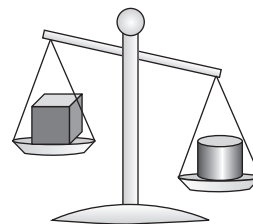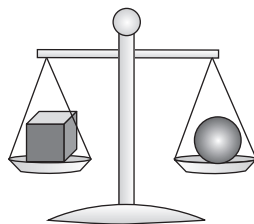**20** Matt spins the arrow on this spinner.
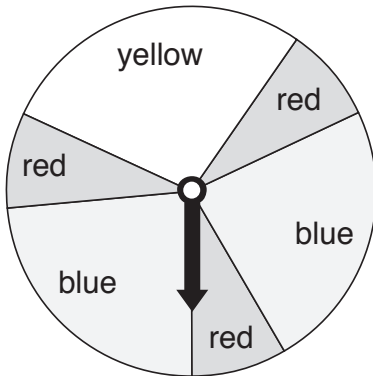
Which colour is the spinner most likely to land on?

red	blue	yellow	all colours are equally likely
◯	◯	◯	◯

21 Each square in this shape has a side length of 1 centimetre.
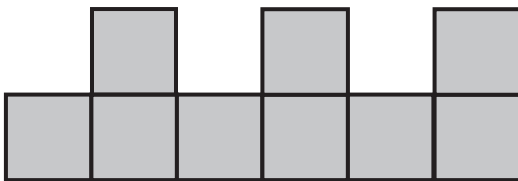
What is the perimeter of the shape?

9 centimetres	16 centimetres	20 centimetres	36 centimetres
◯	◯	◯	◯

22 The dogs at a dog show were weighed.

All the weights were then recorded in a graph.
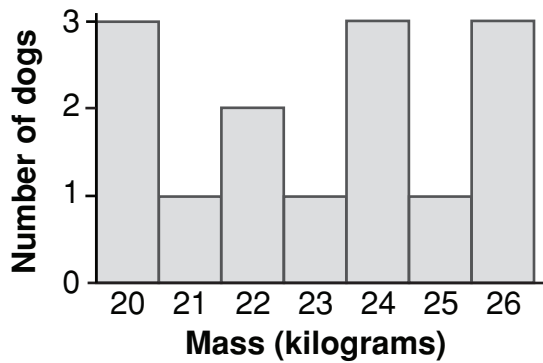
How many dogs were at the dog show?

3	7	14	26
○	○	○	○

23 Holly placed a piece of paper along a line of symmetry on her star.
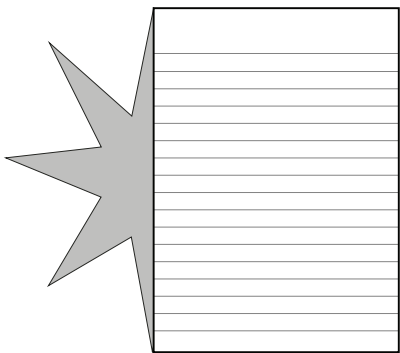
How many points does Holly's whole star have?

3	5	6	8	10
○	○	○	○	○

24 The first number in a pattern is 1.95.

Each number in the pattern is formed by subtracting 0.15 from the previous number.

What is the third number in this pattern?

1.5	1.65	1.8	2.25
○	○	○	○

25 The athletics carnival started at 10:30 am and lasted for $2\frac{1}{4}$ hours.

Rose went straight home after the carnival finished.

She took $\frac{1}{2}$ an hour to get home.

What time did Rose get home?

12:45 pm	1:00 am	1:00 pm	1:15 am	1:15 pm
○	○	○	○	○

26 Ari thinks of a number.

He writes these clues so his friends can guess it.

- The number is less than 1000.
- The number has 90 tens.
- The digit in the ones place is the same as the digit in the hundreds place.

What is Ari's number?

90	99	900	909
○	○	○	○

27 Bill, Sue and Mark share a bag of apples.

Bill and Sue each get $\frac{1}{6}$ of the apples in the bag.

What fraction of the bag of apples is left for Mark?

$\frac{4}{6}$	$\frac{3}{6}$	$\frac{2}{6}$	$\frac{1}{6}$
○	○	○	○

28 Hugo wants to find the missing number below.

$\boxed{?} - 38 = 45$

Which of these could Hugo use to find the missing number?

45 + 38	45 − 38	38 − 45	38 × 45
○	○	○	○

29 Arav went for a run and stopped after $\frac{1}{4}$ kilometre.

Which of these shows Arav at the point where he stopped running?

○ 0 km ——— 1 km (figure near 1 km mark)

○ 0 km ——— 4 km (figure near 4 km mark)

○ 0 km ——— 1 km (figure between 0 and 1 km, near first division)

○ 0 km ——— 4 km (figure near first division)
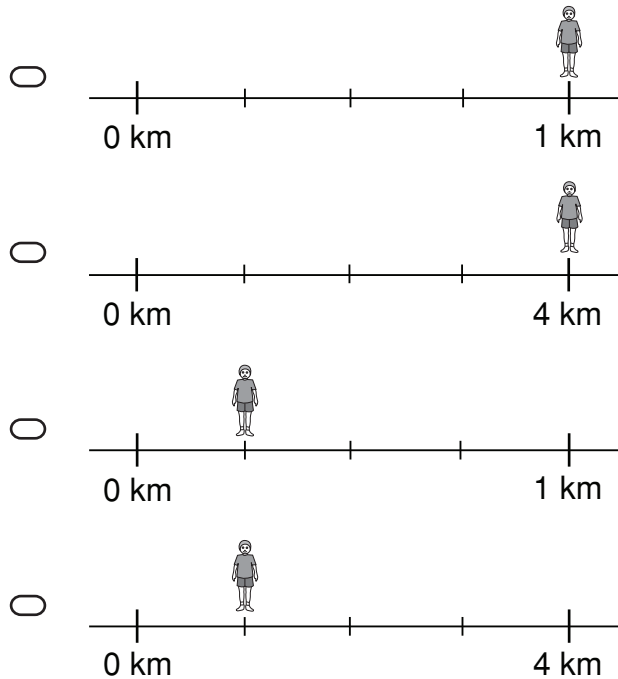
30 William earns money each week for doing jobs.

For each job he earns $2.

He records the number of jobs he does in one week in a table.

Jobs	Number
Take out the rubbish	|||
Walk the dog	~~||||~~	
Wash dishes	||||

If William does the same jobs for three weeks, how much money will he earn altogether?

$13 $26 $39 $78

○   ○   ○   ○

31   The table shows the fixtures for six football teams on Saturday.

Start time	Teams
9:00	Team A plays Team B
10:00	Team C plays Team D
11:00	Team E plays Team F

If no match ends in a draw, which of the following is possible?

○   Teams A and F both win.

○   Teams C and D both lose.

○   Teams A, D, E and F all win.

○   Teams B and C are the only teams that lose.
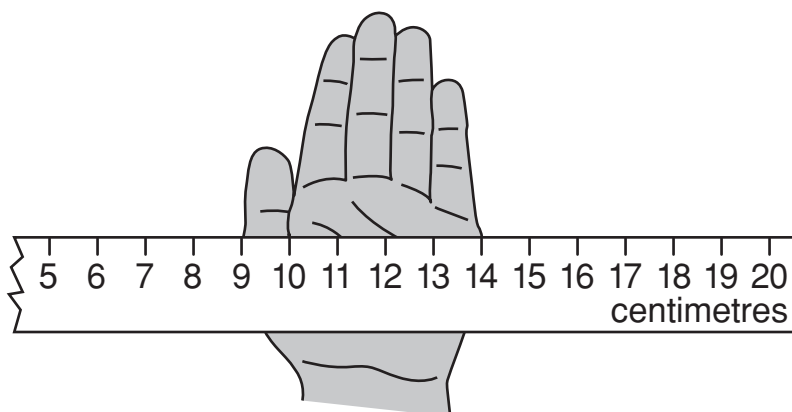
32   Pippa had 35 stickers.

She gave an equal number of stickers to 8 friends.

She gave each friend as many stickers as possible and kept the rest for herself.

How many stickers did Pippa keep for herself?

3	4	11	27
○	○	○	○

33   Anika is using this broken ruler to measure the width of her hand.

What is the width of Anika's hand?

5 centimetres	6 centimetres	9 centimetres	14 centimetres
○	○	○	○

34 Liam had a leaf.
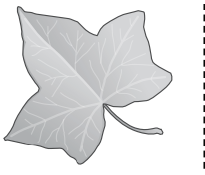
He reflected the leaf to the right across the dotted line.

Then he rotated the leaf 90 degrees clockwise.

Which of these shows the final position of the leaf?

○　　　　　○　　　　　○　　　　　○

---

35 Amber is keeping silkworms.

She records the number of leaves they have eaten every five days.

5 days	10 days	15 days	20 days	25 days
5	15	45	135	**?**

If this pattern continues, how many leaves will the silkworms have eaten in 25 days?

---

36 Twelve friends are planning a day trip to an aquarium.

- Food costs $11 per person.
- Tickets cost $15 per person.
- A boat costs $450 for the whole group.

What is the total cost of the trip for the whole group?

$

37 Which decimal is equivalent to $\frac{1}{5}$?

0.15	0.2	0.25	0.5
⬭	⬭	⬭	⬭

38 This table shows the length and width of four rectangles in centimetres.

Rectangle	Length (cm)	Width (cm)
A	10	6
B	11	10
C	16	2
D	20	12

Which rectangle has a perimeter of 32 centimetres?

Rectangle A	Rectangle B	Rectangle C	Rectangle D
⬭	⬭	⬭	⬭

39 The regular price of a shirt is $24.50.

The shirt is on sale for 10% off the regular price.
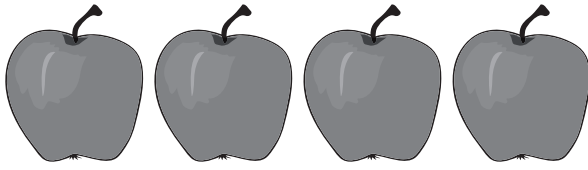
What is the sale price of the shirt?

$ _____

40 There are 56 sheep in a paddock.

Each sheep is either white or black.

There are 6 times as many white sheep as there are black sheep.

How many **black** sheep are in the paddock?

_____

STOP – END OF TEST

YEAR 5 **NUMERACY**

PRACTICE QUESTIONS

P1 How many apples are shown?

3	4	5	6
◯	◯	◯	◯

P2 Write a number in the box to make this number sentence correct.

$6 + 4 =$ ☐

P3 Here is a number pattern.

2, 4, 6, 8, ☐ **?**

What is the next number in the pattern?

9	10	11	12
◯	◯	◯	◯