

NUMERACY

YEAR
3
2016

45 min

Time available for students to
complete test: 45 minutes

Use 2B or HB
pencil **only**



YEAR 3 NUMERACY

1

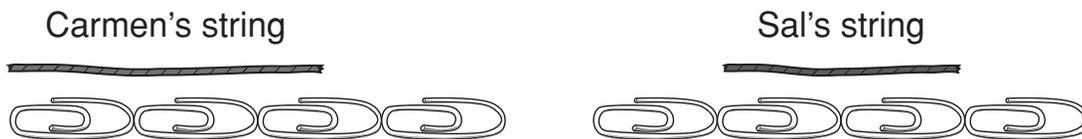
Which group has the most stars?

Year 3 Groups



2

Carmen and Sal each had a piece of string.
They measured their strings using paperclips.



Which of these statements is true?

- Carmen's string is longer than Sal's string.
- Carmen's string is shorter than Sal's string.
- Carmen's string is the same length as Sal's string.

3

Paul has 6 ten-cent coins in his hands.



How much money does Paul have in his hands altogether?

33 cents

16 cents

60 cents

50 cents



YEAR 3 NUMERACY

4

The graph below shows the number of students with each eye colour in Mrs Smith's class.

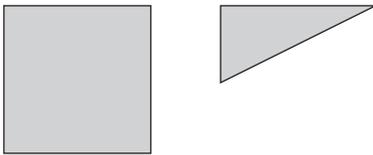


Which statement is true?

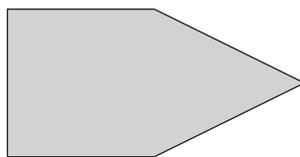
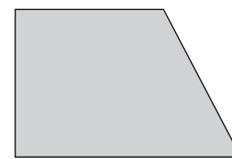
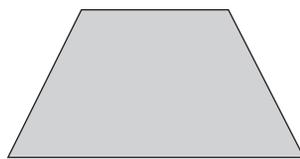
- More students have brown eyes than black eyes.
- Less students have hazel eyes than grey eyes.
- Green is the most common eye colour.
- Blue is the most common eye colour.

5

Cathy has these two shapes.



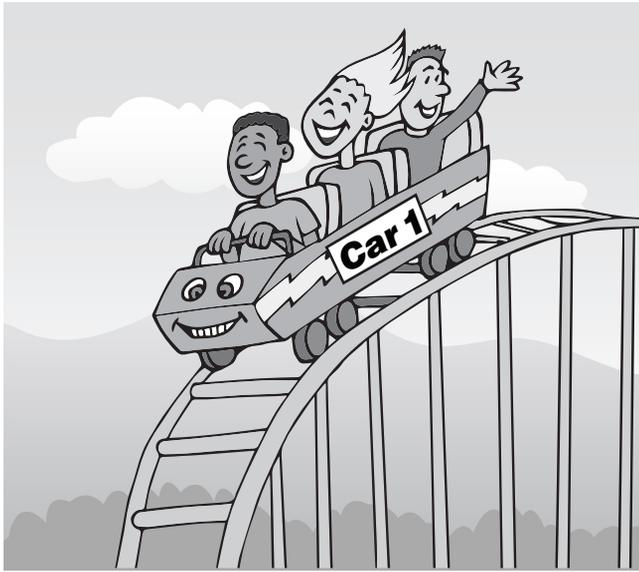
Which shape could she make by joining them together?



YEAR 3 NUMERACY

6

A roller-coaster has 6 cars.
Each car has 3 people in it.



How many people are on the roller-coaster altogether?

6

9

12

18

7

Which clock shows half-past four?



YEAR 3 NUMERACY

8

Rosa was given this money for her birthday.



How much money did Rosa get for her birthday?

\$

9

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?

YEAR 3 NUMERACY

10

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

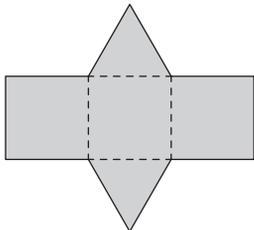


346

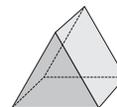
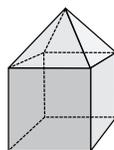
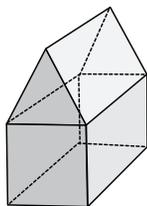
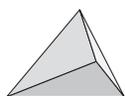


11

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

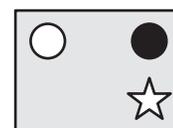
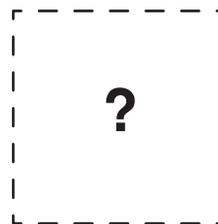
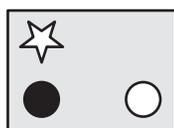
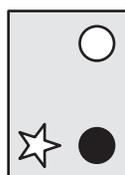
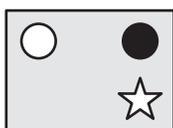


Which of these models did Jack make?

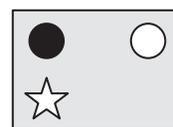
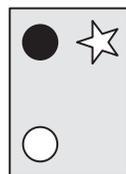
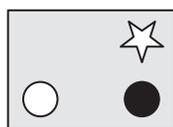
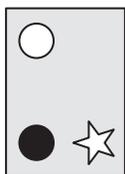


12

This pattern is made by turning a tile.



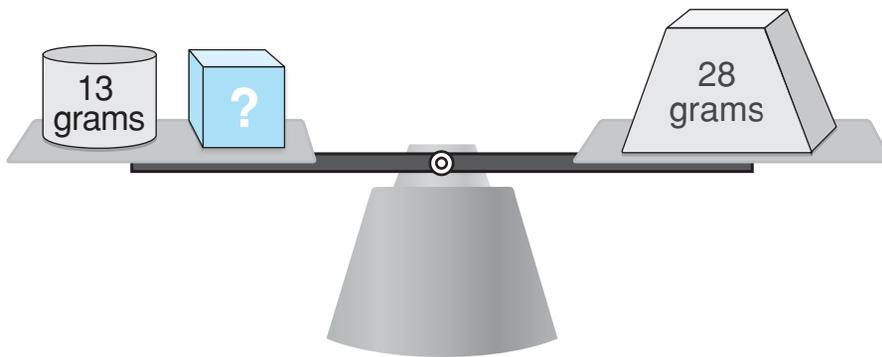
Which tile is missing in the pattern?



YEAR 3 NUMERACY

13

This scale is balanced.



What is the weight of the cube?

grams

14

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



This distance can be written as:

437 km



4037 km



4370 km



40 037 km



YEAR 3 NUMERACY

15

The table shows the number of different birds Anne and Elizabeth saw.

	Finch	Magpie	Pigeon
Anne	2	3	2
Elizabeth	0	2	2

They drew a correct picture graph to show the number of birds they saw altogether.

Which picture graph did they draw?

 = 1 bird

Finch	
Magpie	
Pigeon	

Finch	
Magpie	
Pigeon	

Finch	
Magpie	
Pigeon	

Finch	
Magpie	
Pigeon	

16

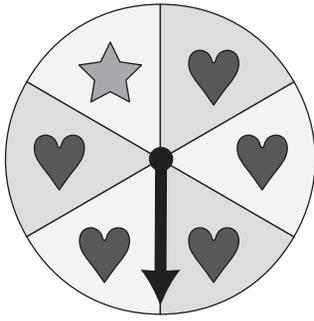
A teacher gives 5 of her students 10 blocks each.

Which of the following can be used to find how many blocks the teacher gave her students?

- $5 + 10$
- $5 + 5 + 5 + 5 + 5$
- $10 + 10 + 10 + 10 + 10$
- $10 + 10 + 10 + 10 + 10 + 10 + 10 + 10 + 10 + 10$

17

Karen spins the arrow on this spinner once.



What is the chance of the arrow landing on a ♥?

certain

likely

unlikely

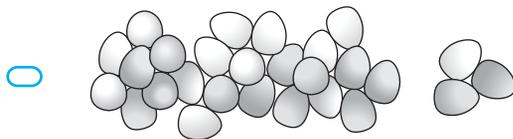
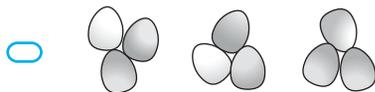
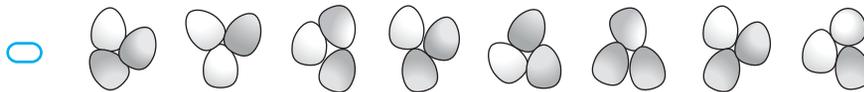
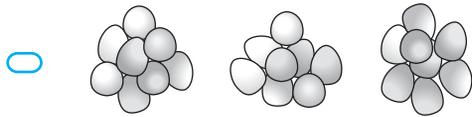
impossible

18

A farmer collects 24 eggs from his hen house.

To count the eggs he puts them into groups of 3.

Which of the following shows the 24 eggs in groups of 3?



YEAR 3 NUMERACY

19

Henry uses the number sentence $12 \times 6 = 72$ to solve a problem.

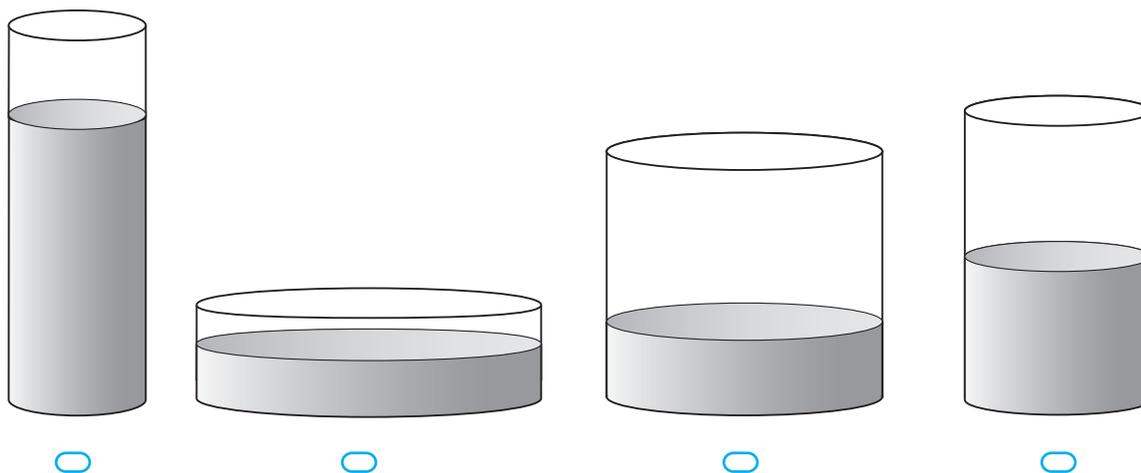
Which problem could he solve with this number sentence?

- 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?

20

Mike poured one cup of water into each of these containers.

When full, which container will hold the most water?



21

A team of 5 players scores a total of 45 points in a game of basketball.

Each player scores the same number of points.

How many points does each player score?

50

40

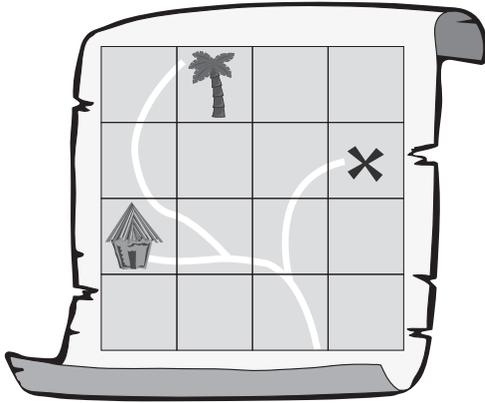
9

8

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22

Greta drew a treasure map.
She marked the treasure with an ✕.



Clues

The  is located in cell A2.

The  is located in cell B4.

In which cell is the ✕ located?

A3

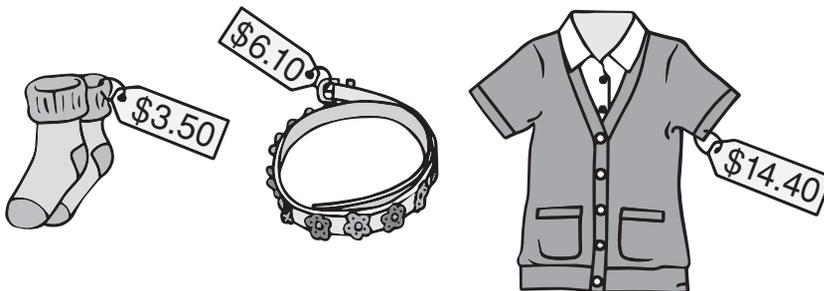
C1

C4

D3

23

Shana buys the items shown.



She gives the shop owner \$30.

How much change should Shana get?

\$6

\$7

\$24

\$54

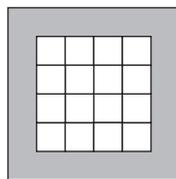
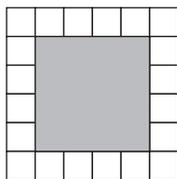
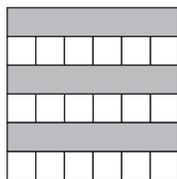
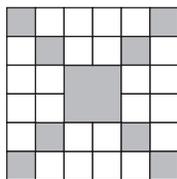
YEAR 3 NUMERACY

24

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

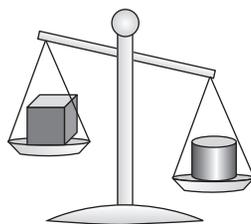
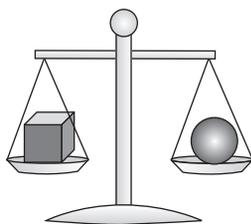
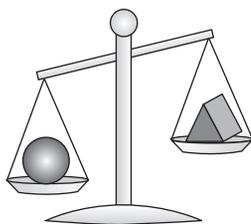
All the small squares in the grids are the same size.

Which of these grids has the largest area painted grey?



25

Rani is comparing the weights of four different objects using a balance scale.



Which object is the heaviest?



26

Ava and Teni have 51 stickers altogether.

Ava has 38 stickers.

Which number sentence can be used to find the number of stickers Teni has?

$$51 - 38 = 13$$



$$51 + 38 = 89$$



$$38 - 51 = 13$$



$$38 - 13 = 25$$



YEAR 3 NUMERACY

27

Before each car ride, Lina and Bess flip a fair coin to see which seat they will sit in.

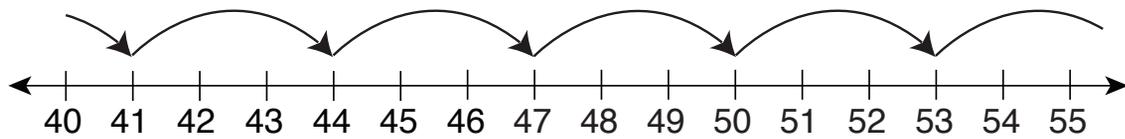
Lina always calls *tails*. She won the last three times.

Which of the following is true for the next flip?

- Lina is most likely to win.
- Bess is most likely to win.
- Both are equally likely to win.

28

Kia is using a number line to show a pattern.



In Kia's pattern, what number comes before 41?

36

37

38

39

29

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

YEAR 3 NUMERACY

30 Pat wrote $\square - 2 = 5$.

In which of these does the \square have the same value as above?

$2 + 5 = \square$

$\square + 2 = 5$

$5 - 2 = \square$

$\square = 5 - 2$

31 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?

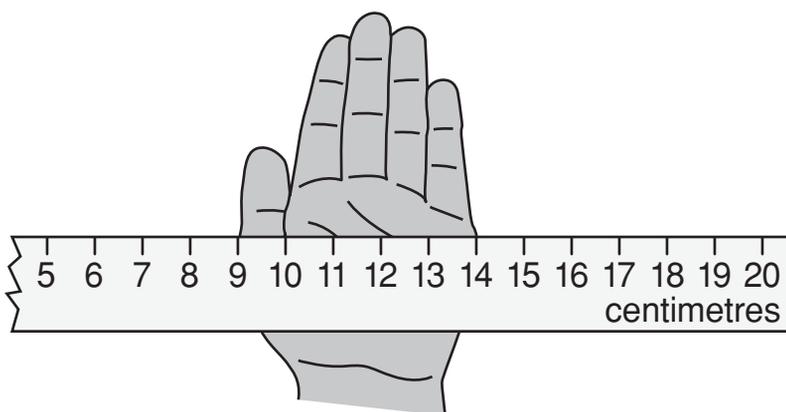
$\frac{4}{6}$

$\frac{3}{6}$

$\frac{2}{6}$

$\frac{1}{6}$

32 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



YEAR 3 NUMERACY

33

Robyn made this number sentence with cards.

$$\boxed{43} \boxed{+} \boxed{28} \boxed{=} \boxed{43} \boxed{+} \boxed{30} \boxed{?} \boxed{?}$$

Which of these cards will make the number sentence correct?

$$\boxed{+} \boxed{2}$$

$$\boxed{-} \boxed{2}$$

$$\boxed{+} \boxed{8}$$

$$\boxed{-} \boxed{8}$$

34

Nick has a rectangular garden which is 8 metres long and 6 metres wide. He puts a fence post in one corner.

Then he puts posts every 1 metre around the garden.

How many posts does he use altogether?

35

Sam and Kim picked 33 strawberries together.

Kim picked 9 more strawberries than Sam.

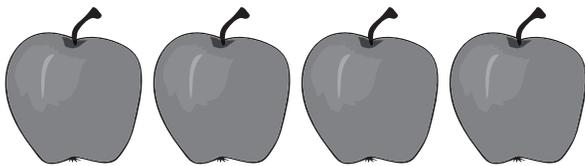
How many strawberries did Kim pick?

STOP – END OF TEST

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.

$$6 + 4 = \boxed{}$$

P3

Here is a number pattern.

2, 4, 6, 8, ?

What is the next number in the pattern?

9

10

11

12