Numeracy Practice Test
Year 7 - Answers

2010 Practice Test 2 – Calculator Allowed

Student Details

First Name

Last Name

Today's Date is: _____

Test Instructions

You have 40 minutes to complete this test.

You are **allowed** to use a calculator.

You should use a pencil to write your answers or shade in the bubble.

If you make a mistake, rub it out thoroughly.

The following test has been designed by 3P Learning to prepare students for the National Assessment Program Numeracy Test. This test is to be used for revision purposes only. 3P Learning does not guarantee that the format of this test is the same as an actual test.

1 **Here is a number pattern.**

Shade one bubble.

12 X 66 = 792

24 X 66 = 1584

36 X 66 = 2376

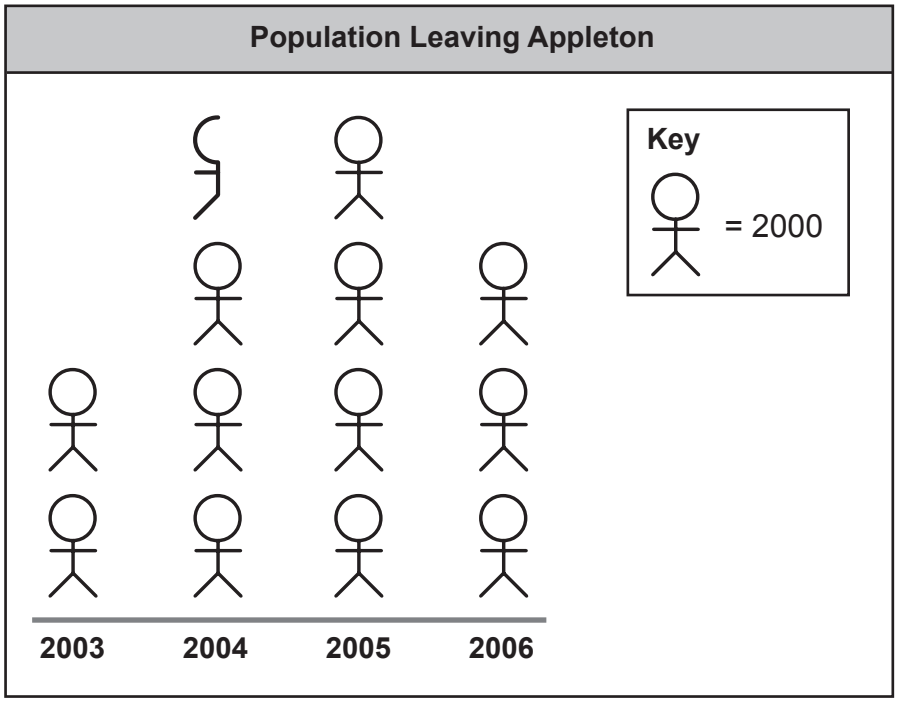
48 X 66 = 3168

☐ X 66 = 3960

What is the missing number?

● 60 ○ 72 ○ 84 ○ 96

2 **The number of people moving out of a country town over 4 years is shown below.**



Shade one bubble.

The total number of people who have moved over the years is:

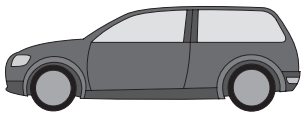
○ 15 000 ○ 20 000 ○ 22 000 ● 25 000

3 $(6 \times 12) + (51 \times 10) + (7 \times 8) + (7 \times \frac{1}{10}) + (8 \times \frac{2}{100})$ is equal to:

○ 63.886 ○ 638.65 ● 638.86 ○ 6388.6

Shade one bubble.

4



The length of this car is 4.79 metres.

How long is this car to the nearest metre?

○ 4.8 metres

○ 4 metres

● 5 metres

○ 4.5 metres

Shade one bubble.

5 $1^3 + 2^3 + 3^3 + 4^3 + 5^3 =$ ☐

Shade one bubble.

● 225 ○ 625 ○ 500 ○ 525

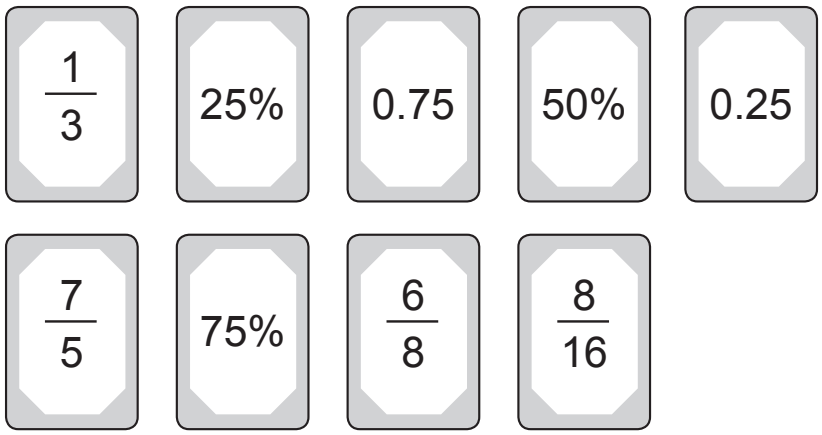
6 A length of ribbon 3.6 metres long is cut into pieces that are 0.06 long. How many pieces of ribbon can be cut?

60

Write your answer in the box.

7 How many cards are the same as $\frac{3}{4}$?

Shade one bubble.



○ 6 ○ 5 ○ 4 ● 3

8 Which letter does <u>not</u> have a line of symmetry?

Shade one bubble.

○ ○ ● ○

9 How many of the numbers are not multiples of 8?

Shade one bubble.

● 3 ○ 4 ○ 5 ○ 6

10 **The maximum daily temperatures in Paris and New York were recorded over a week in January.**

Shade one bubble.

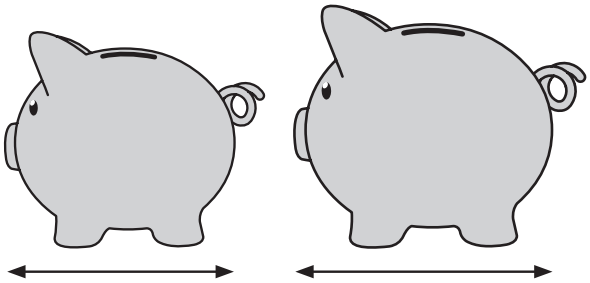
	Sun	Mon	Tues	Wed	Thurs	Fri	Sat
Paris	2	2	-1	1	4	- 3	- 2
New York	- 4	- 3	0	1	-1	- 2	2

On which day is the greatest difference in temperature?

● Sunday ○ Monday ○ Thursday ○ Friday

11 **The picture shows the length of two money boxes.**

Shade one bubble.



What is the difference between the two lengths?

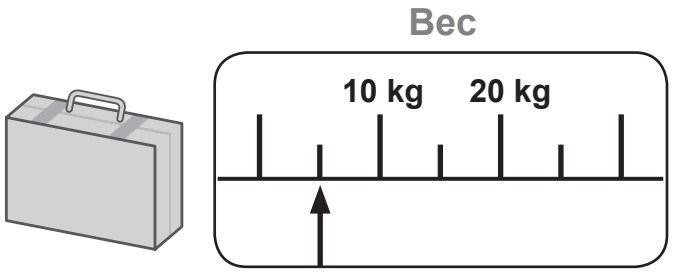
● 0.6 cm ○ 1.6 cm ○ 2.6 cm ○ 1.2 cm

12 **Tina bought 35 L of petrol at $1.52 per litre.**
How much did she pay for the petrol?

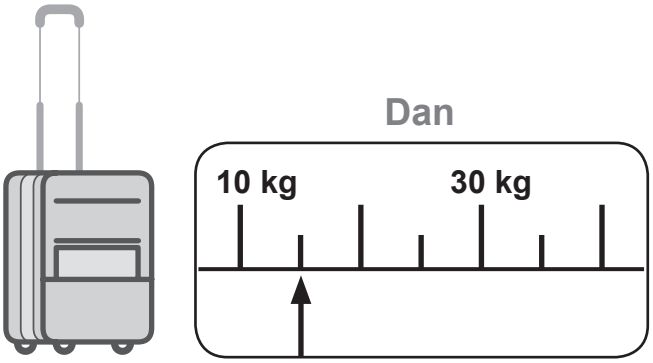
$53.20

Write your answer in the box.

13 **This scale shows the weight of Bec's suitcase.**



This scale shows the weight of Dan's suitcase.



By how much more does Dan's suitcase weigh than Bec's?

10 kg

Write your answer in the box.

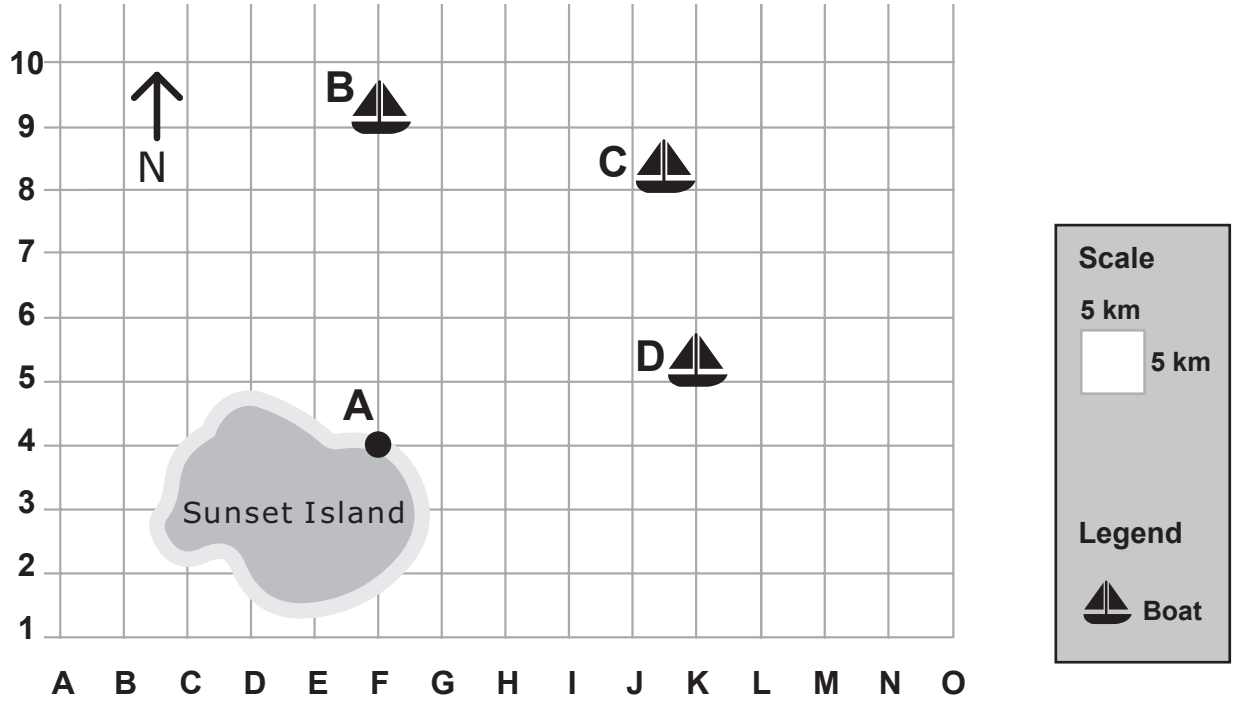
14 **Nick starts with a number.**
He divides it by 8 and then multiplies it by 6. The answer is 360.

What number did he start with?

Shade one bubble.

○ 80 ○ 60 ● 480 ○ 360

The next 3 questions are based on this map:



A whale watching company is based at point A at Anchor Beach.

They have 3 boats out at sea.

Big Sur at point B.

Crackerjack at point C.

And Delaney at point D.

Write your answer in the boxes.

15 **What is the grid reference of Delaney?**

K5

16 **Which direction is Crackerjack from Anchor beach?**

NE

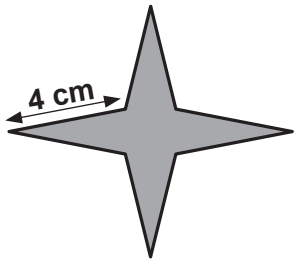
17 **Big Sur is travelling directly back to Anchor beach at an average speed or 30 km/hr.**

How many minutes will it take to get back?

50

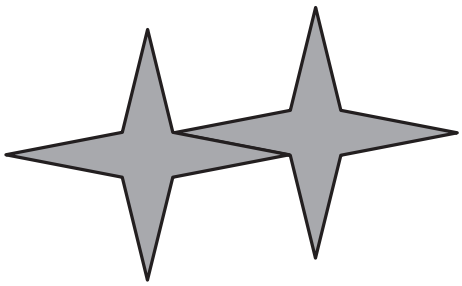
18 **Mitch has some star shaped tiles.**

Each edge of a tile is 4 cm long.



Not actual size

He puts two tiles together to make this shape.

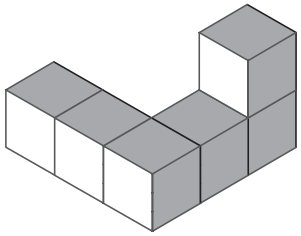


Work out the perimeter of Mitch's shape.

56 cm

Write your answer in the box.

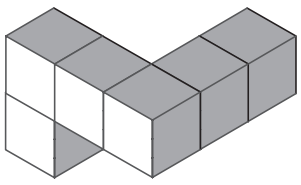
19

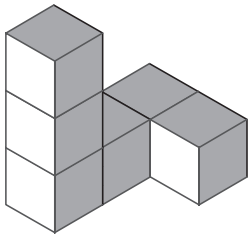


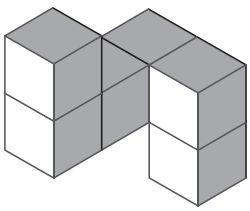
Shape X

Shade one bubble.

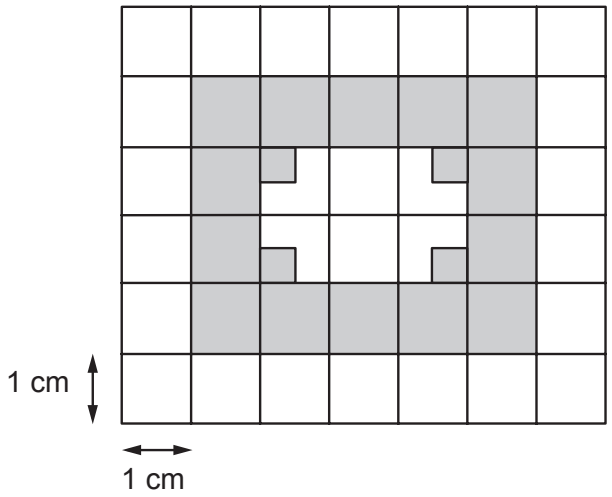
Shade the bubble under the shape that is NOT the same as Shape X.







20 **Here is a 1 cm square grid.**
Some of the grid is shaded.



What is the area that is shaded?

Write your answer in the box.

15 cm^2

21

A B C

D E F

Shade one bubble.

Which two cards add to give a total of 9?

○ A and E ○ C and D ● A and F ○ B and F

22 **This question is based on the table below:**

EVENT	TEAM				
	1	2	3	4	5
Backstroke	20	12	15	13	12
Freestyle	15	11	20	15	18
Butterfly	14	20	17	14	12
Breaststroke	13	18	20	18	15

A school has a swimming carnival.

The winner of each event scores 20 points.

The above chart shows the points scored by each team.

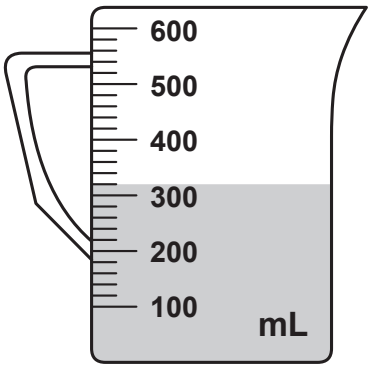
Which team came <u>second</u> in the <u>freestyle</u> event?

Write your answer in the box.

5

23 **Miss Bowman mixes some orange drink for a party. She pours orange squash into a jug.**

Write your answer in the box.



How much water must she add to make 600 millilitres of drink?

280 **mL**

The next 4 questions are based on this train timetable:

Pointville	2153	2228	2326	0028
Charlestown	2159	2234	2332	0034
Adventure Bay	2213	2248	**X**	0048
Cascade	2232	2307	0005	0107
Golden Valley	2258	2333	0031	**Y**

Write one number in each box.

24 **What is the missing time X written in 12-hour time?**

11:46 pm

25 **The train takes 14 minutes to travel between Charlestown**

and Adventure Bay

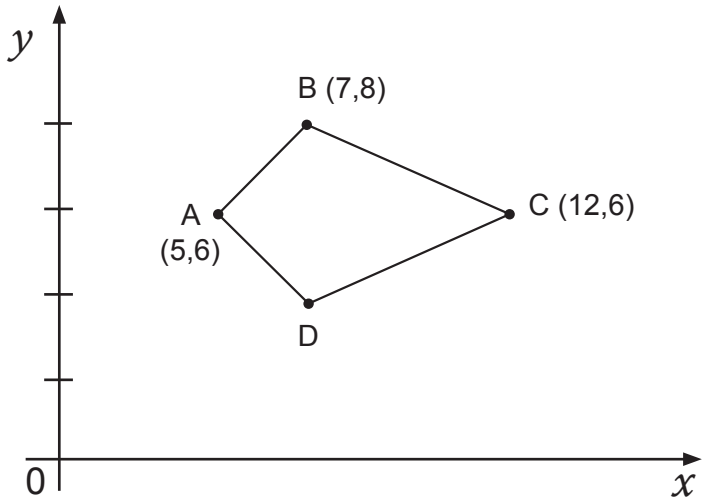
26 **What is the time that is missing at Y, in 12-hour time?**

1:33 am

27 **Tim and Sarah are at a party in Pointville. They live in Cascade, and their dad is going to pick them up from the station at Cascade at 10:32 pm. If it takes them 15 minutes to walk to the station at Pointville, what is the latest time they should leave the party to go home?**

9:38 pm

28 **Here is a kite:**



Write the coordinates of point D.

Write your answer in the box.

(7 , 4)

29 **A sequence of numbers is shown below. The rule is written in words.**

Multiply the last number by 3 and then subtract 2.

13 37 109 325

The sequence continues.

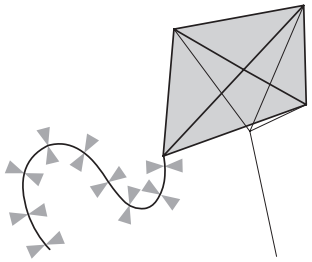
The number 8 749 is in the sequence.

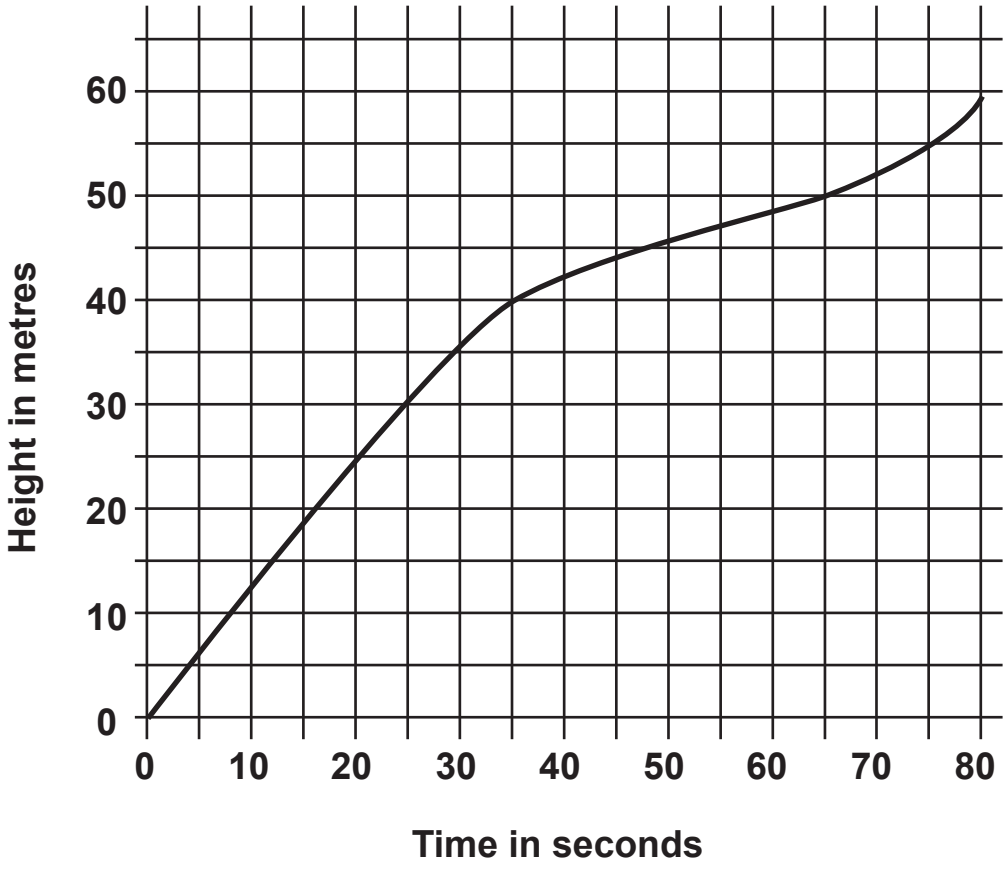
Calculate the number which comes immediately before 8 749 in the sequence.

2 917

Write your answer in the box.

The next 2 questions are based on this graph:





30 a **From the graph, find the height of the kite at 65 seconds.**

50 metres

Write your answer in the box.

30 b **Use the graph to find how long it took the kite to rise from 25 metres to 40 metres.**

15 seconds

Write your answer in the box.

END OF TEST

Numeracy Practice Test
Year 7 - Answers

2010 Practice Test 2 – Non-calculator

Student Details

First Name

Last Name

Today's Date is: _____

Test Instructions

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1 **How much greater than 6 592 is 7 292?**

Shade one bubble.

○ 7 ○ 70 ● 700 ○ 18

2 **0.3, 0.7, 1.1, ☐, 1.9**

Shade one bubble.

The missing number from this sequence is:

○ 1.2 ○ 1.3 ○ 1.4 ● 1.5

3 **Solve for x.**

Write your answer in the box.

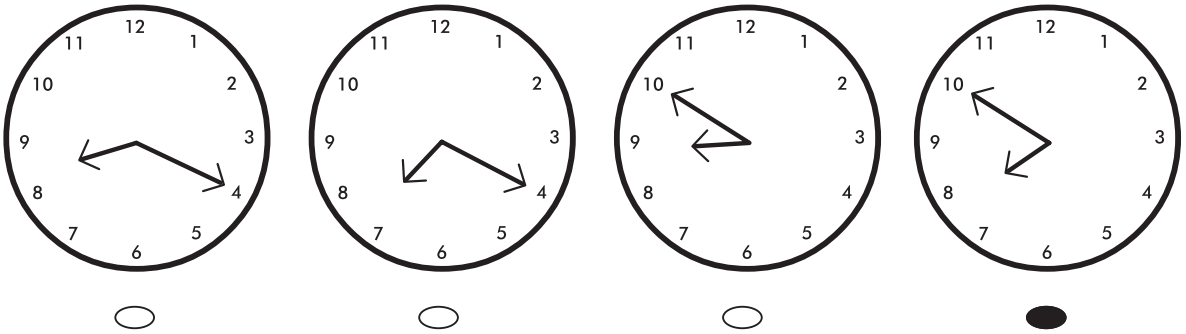
$4x - 5 = 27$

$x =$ 8

4 **The bus arrives at the bus stop at 8:10 am.**
Bec looks at the clock and says, "I must leave in 20 minutes."

What time is showing on the clock?

Shade one bubble.



○ ○ ○ ●

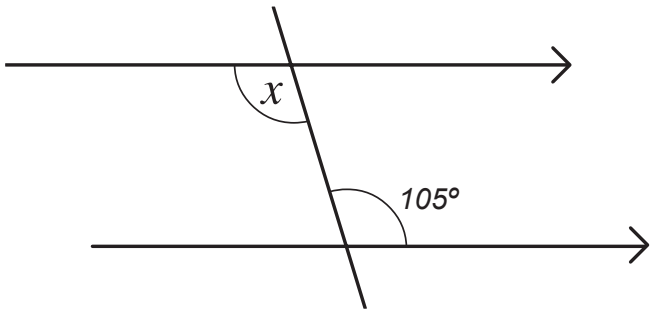
5 **When some money was shared out equally between 8 people, each person received $9.00.**

If the same amount was shared between 6 people, how much money would each person receive?

Shade one bubble.

○ $9.00 ○ $8.00 ● $12.00 ○ $72.00

6 **What is the size of angle x?**



Shade one bubble.

○ 15°

○ 25°

○ 75°

● 105°

7 **225% is equal to:**

Shade one bubble.

○ $2\frac{3}{4}$ ○ $2\frac{1}{5}$ ● $2\frac{1}{4}$ ○ $2\frac{1}{2}$

8 What is the rule relating the values shown in the table?

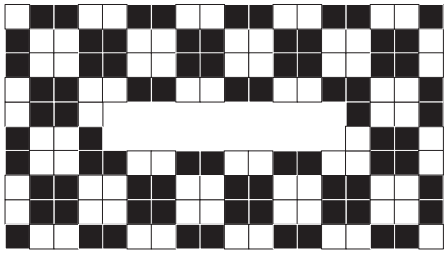
Shade one bubble.

x	2	3	4	5	6
y	8	11	14	17	20

○ $y = 2x + 3$ ○ $y = 3x - 2$

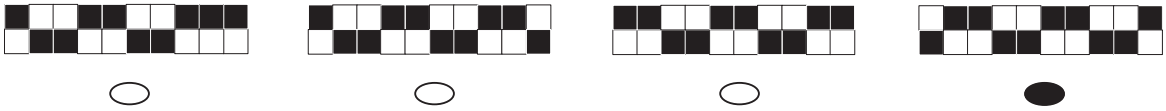
○ $y = 2x - 3$ ● $y = 3x + 2$

9



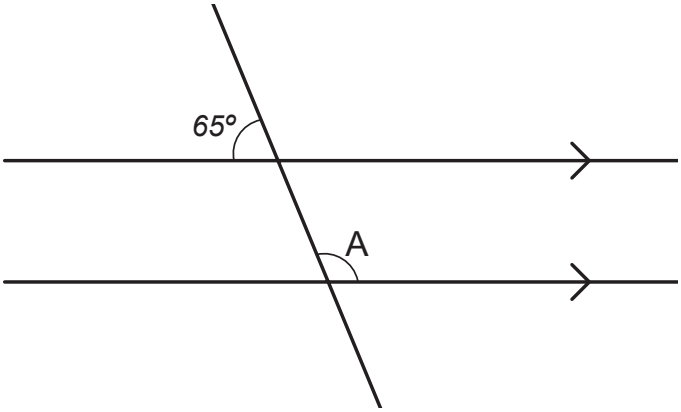
Shade one bubble.

The piece missing from the inside of this tessellating pattern is:



○ ○ ○ ●

10

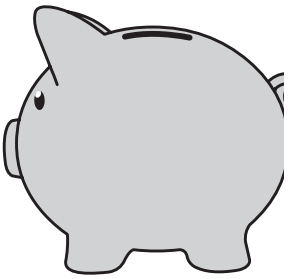


Shade one bubble.

From the diagram, what size is angle A?

● 115° ○ 105° ○ 125° ○ 70°

11 **A regular six-sided die is rolled once. The chance of getting a number greater than 4 is:**



- ○ Certain
- ○ Likely
- ● Unlikely
- ○ Impossible

Shade one bubble.

12 **Tim wants to buy an iPod for $180 and has set himself a goal of six months to save up.**

To buy the iPod in six months, the mean (average) amount that Tim needs to save each month is:

Shade one bubble.

○ $20 ● $30 ○ $60 ○ $18

13 **–14 + 6 =**

Shade one bubble.

○ 20 ○ 8 ● –8 ○ –20

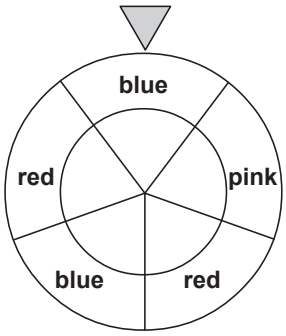
14 **Which of these has the greatest value?**

Shade one bubble.

● $\frac{3}{4}$ ○ $\frac{1}{5}$ ○ 50% ○ 0.3

15 What is the chance that this spinner will not land on blue?

Shade one bubble.

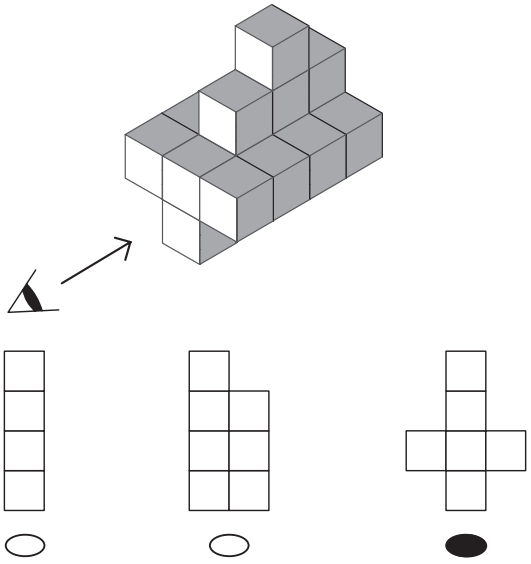


○ $\frac{2}{5}$ ○ $\frac{1}{5}$ ● $\frac{3}{5}$ ○ $\frac{4}{5}$

16 Tess builds a model from cubes.

What is the view from side on?

Shade one bubble.



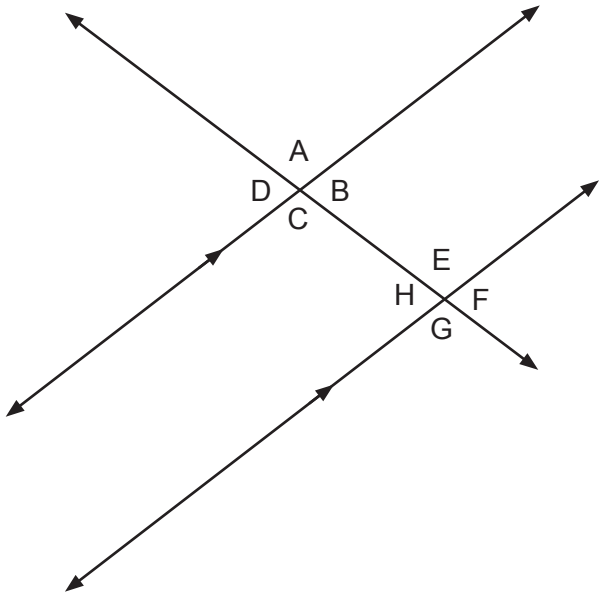
17

Write one number in each box.

The perimeter of this shape is:

3	8	m

Look at this diagram and answer questions 18 and 19.



18 **Angle A is equal to:**

Shade one bubble.

○ B ● C ○ D ○ F

19 **Angles E and G:**

Shade one bubble.

○ are alternate angles.

○ are corresponding angles.

○ are complementary angles.

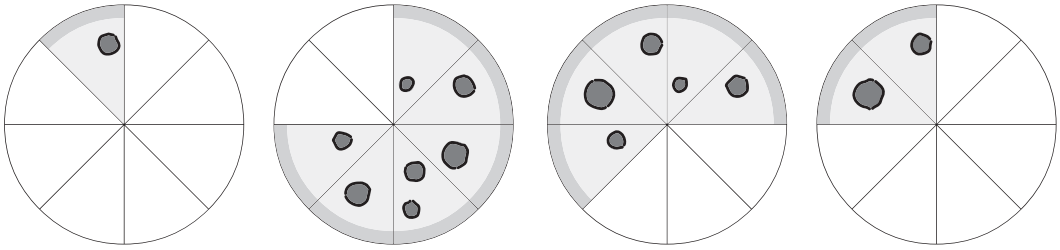
● are vertically opposite angles.

20 **Ben and Mia shared a pizza.**

Ben ate $\frac{3}{8}$ of the pizza and Mia ate $\frac{1}{2}$ of the pizza.

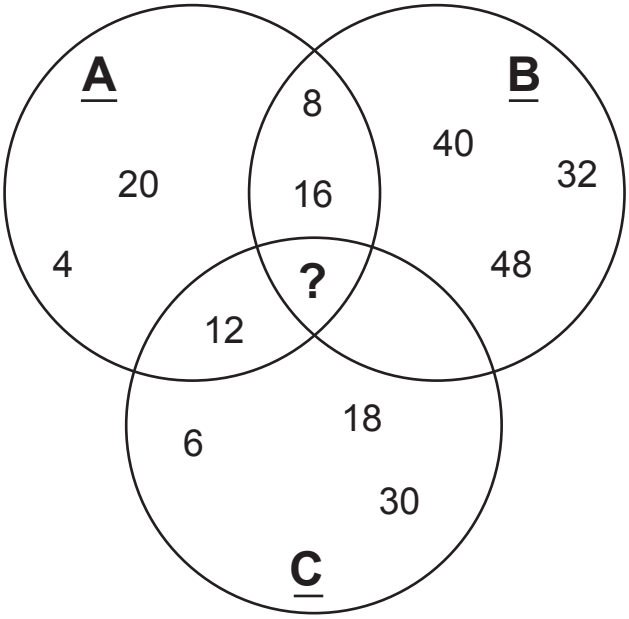
Which picture shows how much pizza was left over?

Shade one bubble.



● ○ ○ ○

21



Shade one bubble.

In the Venn diagram, all the numbers in Set A are multiples of 4.
In Set B, the numbers are multiples of 8 and Set C contains multiples of 6.

Which number should go in the intersecting segment of all three sets?

○ 14 ● 24 ○ 36 ○ 28

22 The table below shows the number of students from two classes that play sport.

	Wednesday Sport	Thursday Sport
7A	8	11
7B	9	6

Shade one bubble.

What is the probability that a student, chosen at random, will be from 7A and plays sport on a Wednesday?

○ $\frac{8}{11}$ ○ $\frac{8}{19}$ ○ $\frac{8}{17}$ ● $\frac{8}{34}$

23 $3^3 \times 3^2 =$

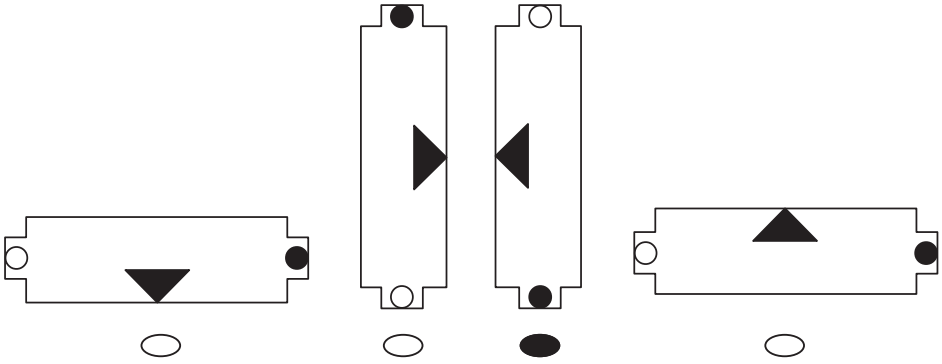
Shade one bubble.

○ 27 ○ 51 ○ 72 ● 243

24 The shape below is shown after it has been rotated a quarter turn clockwise.

What did the shape look like before it was rotated?

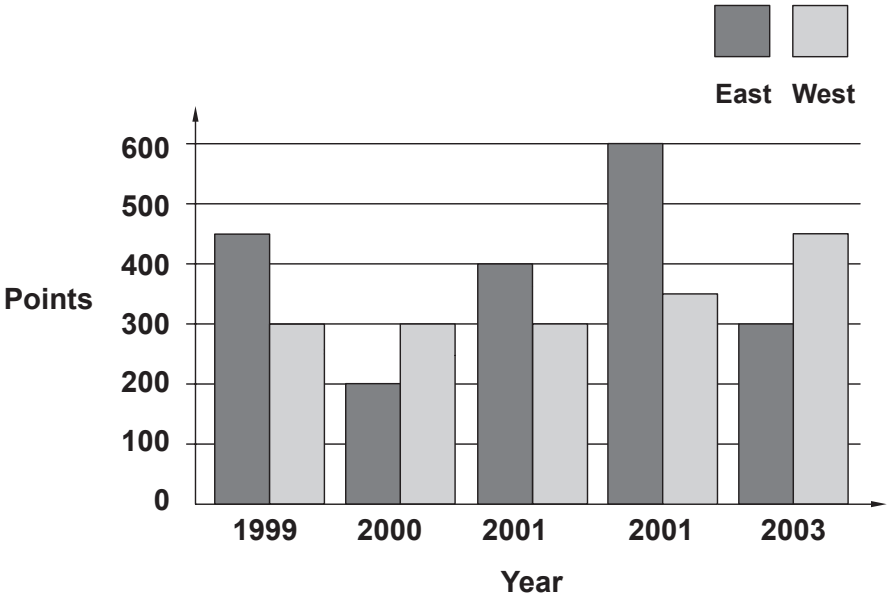
Shade one bubble.



○ ○ ● ○

25 **A school plays netball each year.**
There are two teams.
Here are their results.

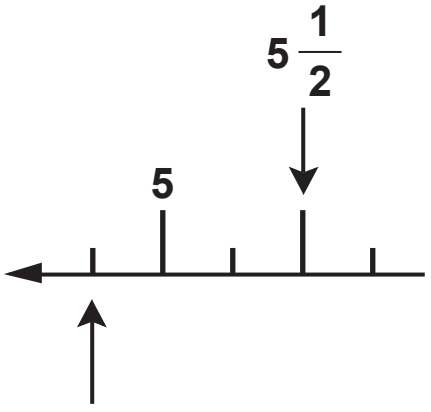
Shade one bubble.



What is the average (mean) difference in points?

○ 100 ● 150 ○ 200 ○ 250

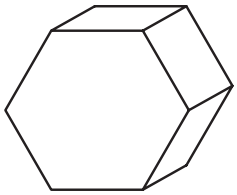
26 **Write the number that goes on the number line at the point shown by the arrow:**



Shade one bubble.

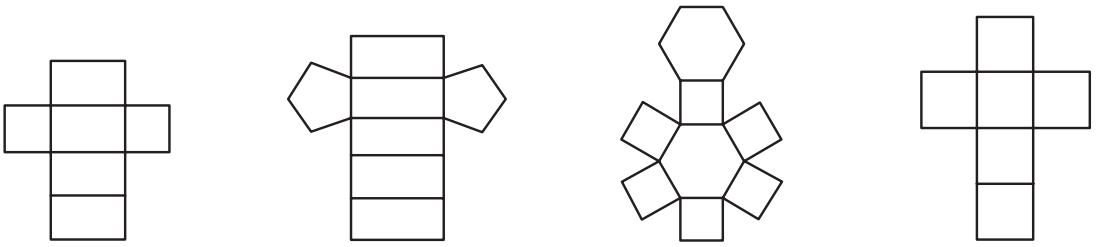
○ 4 ○ $4\frac{1}{4}$ ○ $4\frac{1}{2}$ ● $4\frac{3}{4}$

27



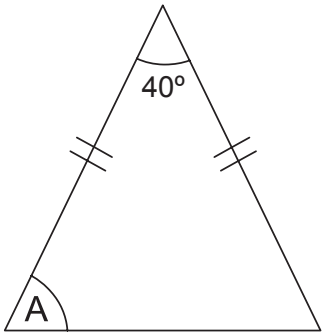
Shade one bubble.

Which is the net of this hexagonal prism?



○ ○ ● ○

28 **An isosceles triangle is drawn.**



What is the size of angle A?

7	0	°

Write one number in each box.

29 **Dan and his friends are planning a party.**

Each person at the party will get 3 slices of pizza and 2 cans of drink.

They make 9 pizzas with 5 slices in each. How many cans of drink do they need?

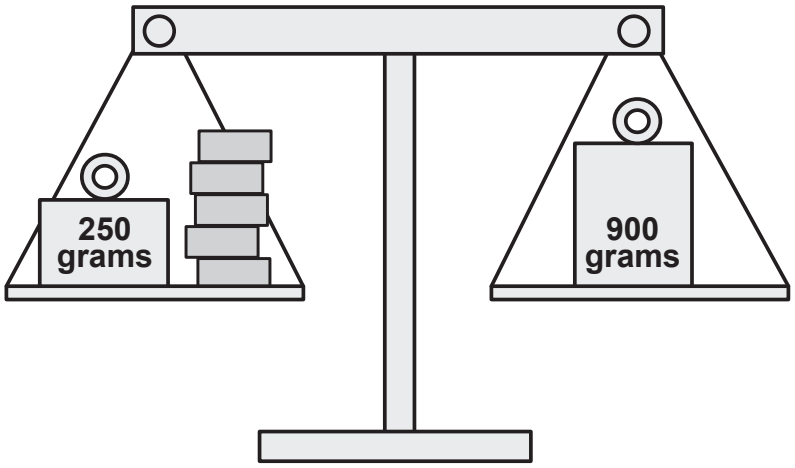
Shade one bubble.

○ 45 ● 30 ○ 25 ○ 15

30 **Bec has 5 blocks that are all the same weight.**
She balances them on the scale with 2 weights.

Calculate the weight of 2 blocks.

Shade one bubble.



○ 250 g ● 260 g ○ 300 g ○ 350 g

END OF TEST