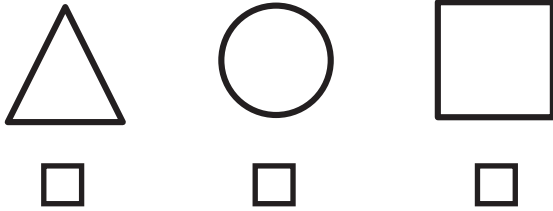


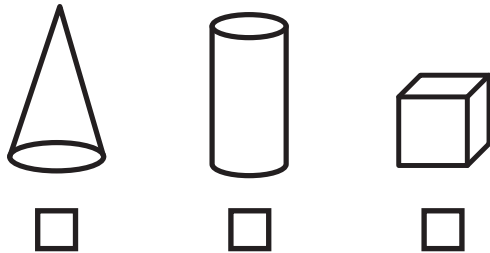
Big Maths Beat That!: Teacher Notes

SAFE Challenge 6			
	Step Location in the SAFE framework		Title of Step
	Progress Drive	Step No.	
Q1	Shape: 2D Shapes	13	I can recognise many different types of familiar 2D shapes
Q2	Shape: 3D Shapes	10	I can recognise many different types of familiar 3D shapes
Q3	Amounts: Amounts of Money	7	I can use coins to make totals up to 20p
Q4	Amounts: Amounts of Time: Telling The Time	4	I can read, write and draw 'half past'
Q5	Fractions: Fractions of a Whole	4	I can spot a quarter
Q6	Fractions: Fractions of a Whole	6	I can spot a third
Q7	Explaining Data: Diagrams & Tables	11	I can explain tally charts
Q8	Explaining Data: Bar Charts	2	I can explain counting towers
Q9	Dangerous Maths: Pattern Spotting	8	I understand the pattern of odd and even numbers
Q10	Dangerous Maths: Algebra	2	I know symbols can represent unknown numbers

1 Tick the circle



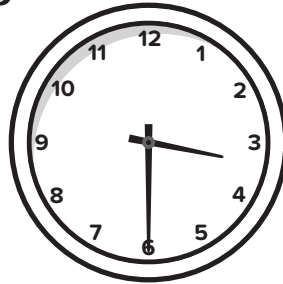
2 Tick the cube



3 Use the least coins to make 17p



4






Half past 9

Six o' clock

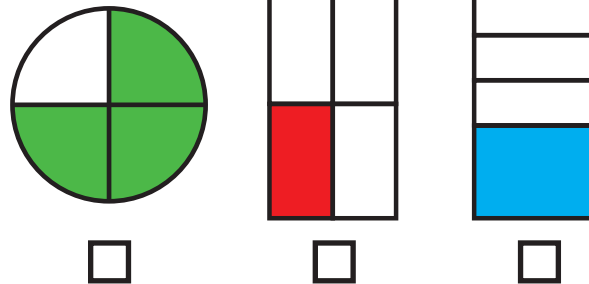
Half past 3

7

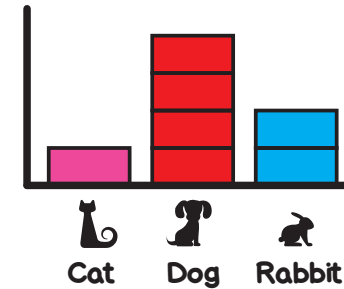
	Cars		
	Vans		
	Bikes		

How many cars?

5 Tick if one quarter is shaded

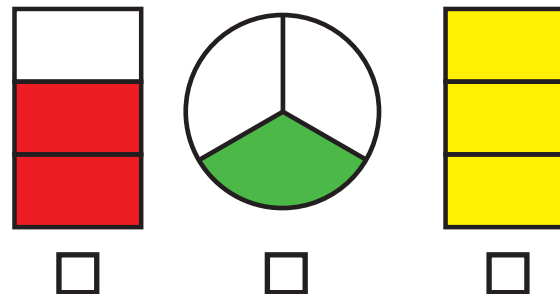


8



How many cats are there?

6 Tick if one third is shaded



9 Which is odd?

13 42 10 86

10

$$3 + \text{😊} = 10$$

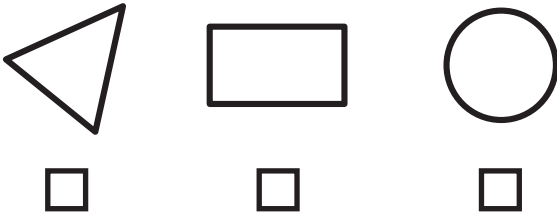
$$\text{😊} =$$

MY LAST SCORE?!

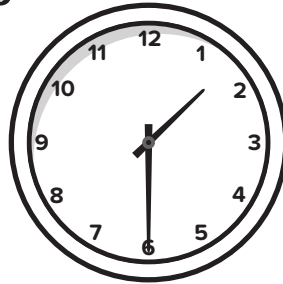
HAVE I BEAT THAT?!



1 Tick the circle



4






Half past 1

Five o' clock

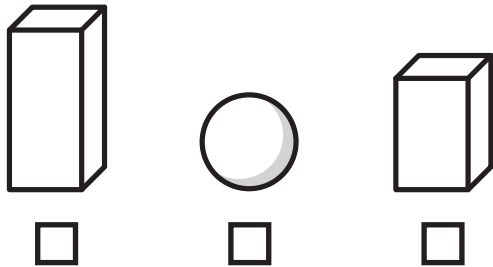
Half past 4

7

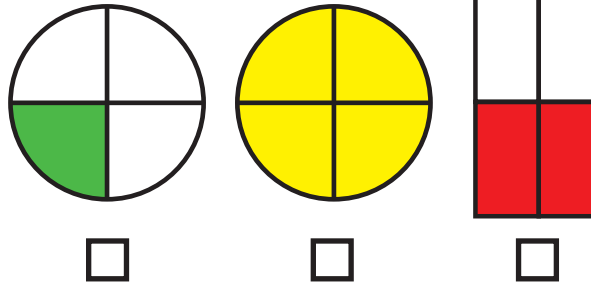
	Bikes	
	Cars	
	Vans	

How many bikes?

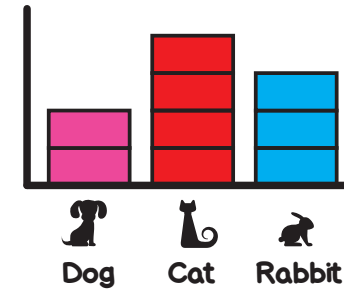
2 Tick the sphere



5 Tick if one quarter is shaded



8

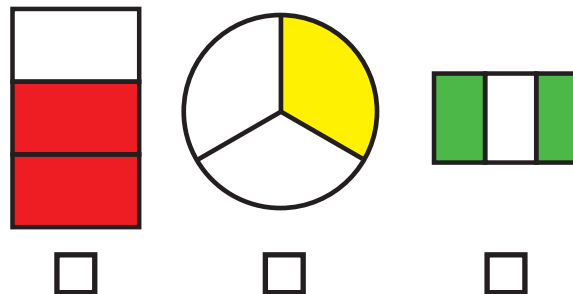


How many cats are there?

3 Use the least coins to make 13p



6 Tick if one third is shaded



9 Which is even?

15 26 11 47

10

$$1 + \text{car icon} = 10$$

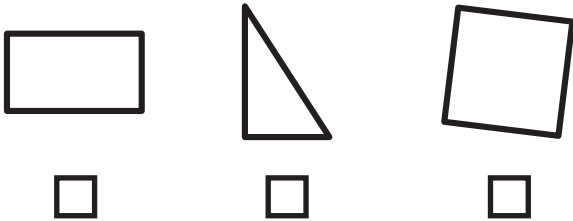
$$\text{car icon} =$$

MY LAST SCORE?!

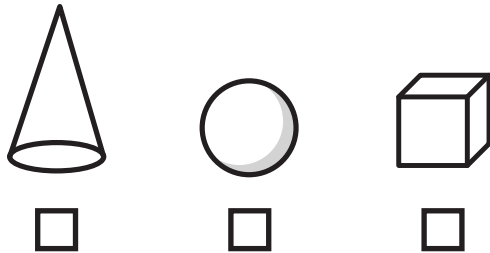
HAVE I BEAT THAT?!



1 Tick the square



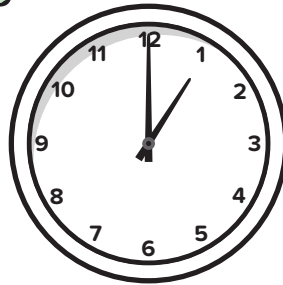
2 Tick the cone



3 Use the least coins to make 11p



4



One o' clock

Half past 7

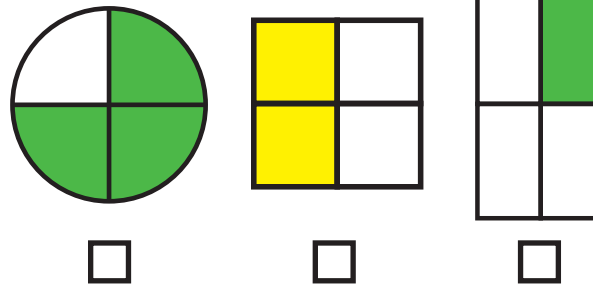
Half past 2

7

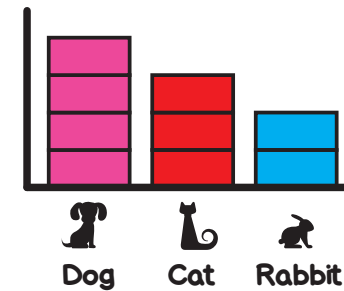
	Cars			
	Vans			
	Bikes			

How many vans?

5 Tick if one quarter is shaded

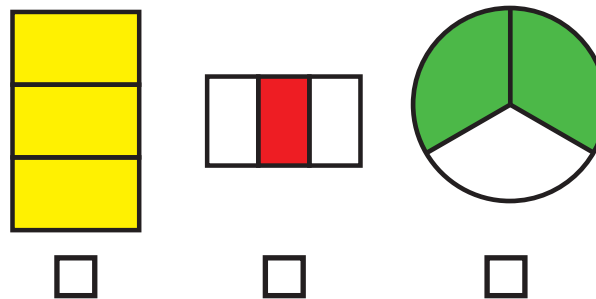


8



How many rabbits are there?

6 Tick if one third is shaded



9 Which is odd?

18

41

14

66

10

$$5 + \text{bike icon} = 10$$

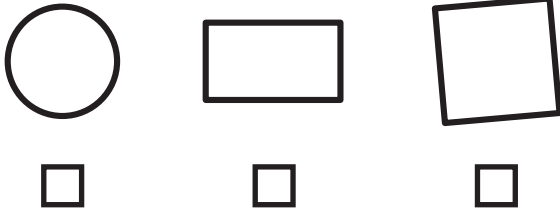
$$\text{bike icon} =$$



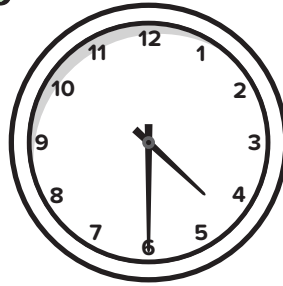
MY LAST SCORE?!

HAVE I BEAT THAT?!

1 Tick the rectangle



4



Half past 10

Nine o'clock

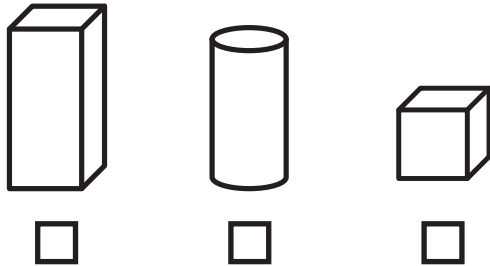
Half past 4

7

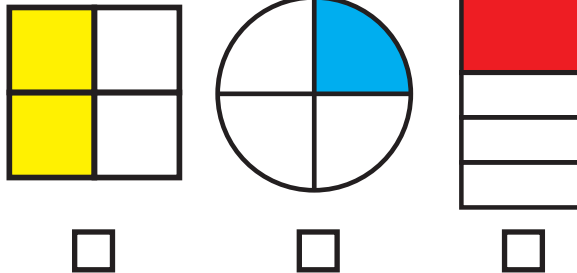
Balls		
Blocks		
Buttons		

How many balls?

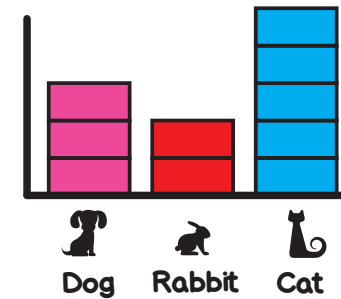
2 Tick the cuboid



5 Tick if one quarter is shaded



8

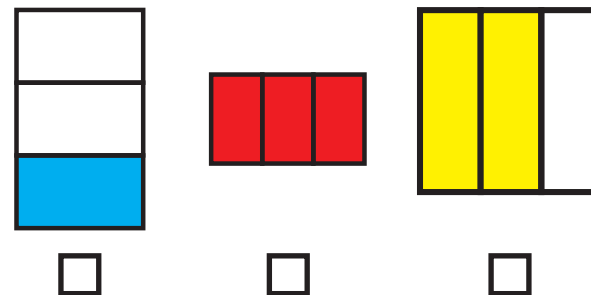


How many rabbits are there?

3 Use the least coins to make 12p



6 Tick if one third is shaded



9 Write the next 2 numbers

16 18 20

10

$$8 + \text{car} = 10$$

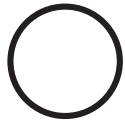
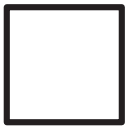
$$\text{car} =$$

MY LAST SCORE?!

HAVE I BEAT THAT?!



1 Tick the square



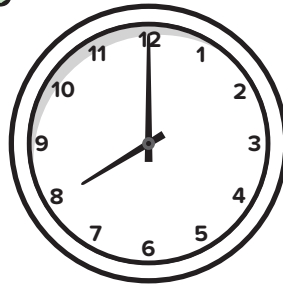
2 Tick the cone



3 Use the least coins to make 18p



4



Eight o'clock

Half past 1

Half past 5

7



Bikes



Cars



Vans



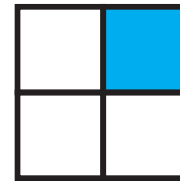
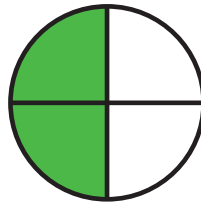
How many bikes?

5

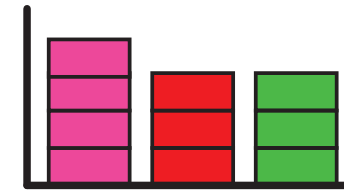
Tick the cone

5

Tick if one quarter is shaded



8



How many cars are there?



Dog



Car



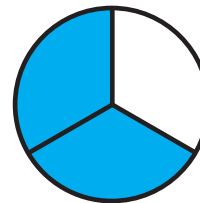
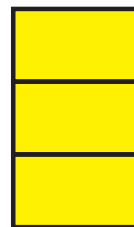
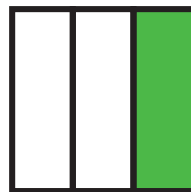
Cat

6

Use the least coins to make 18p

6

Tick if one third is shaded



9

Write the next 2 numbers

61 63 65

10

$$1 + \text{van icon} = 10$$

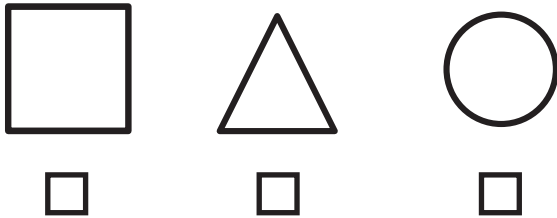
$$\text{van icon} =$$



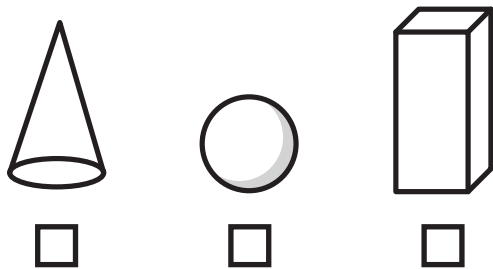
MY LAST SCORE?!

HAVE I BEAT THAT?!

1 Tick the circle



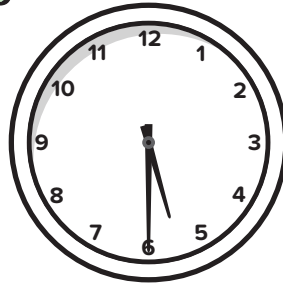
2 Tick the cuboid



3 Use the least coins to make 16p



4



Six o' clock

Half past 2

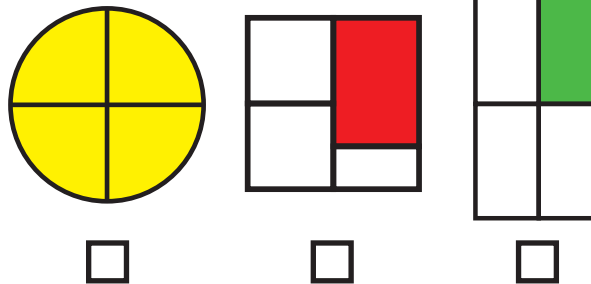
Half past 5

7

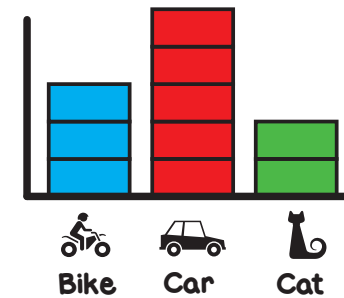
Balls	
Buttons	
Blocks	

How many buttons?

5 Tick if one quarter is shaded

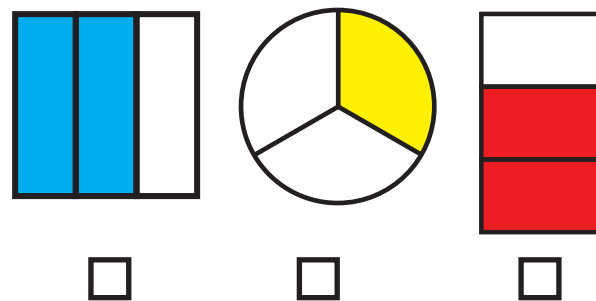


8



How many bikes are there?

6 Tick if one third is shaded



9 Which is odd?

27 36 44 82

10

$$9 + \text{😊} = 10$$

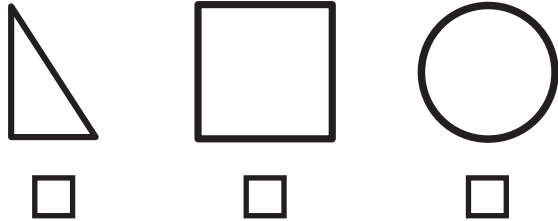
$$\text{😊} =$$

MY LAST SCORE?!

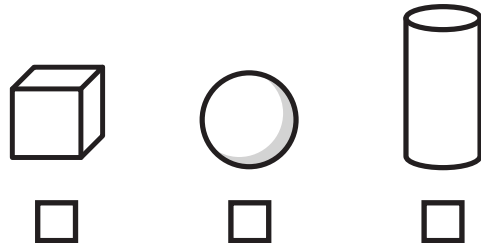
HAVE I BEAT THAT?!



1 Tick the square



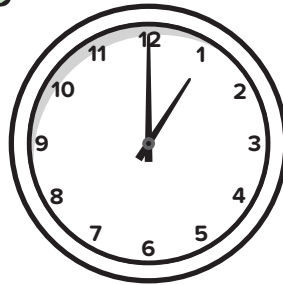
2 Tick the cube



3 Use the least coins to make 11p



4

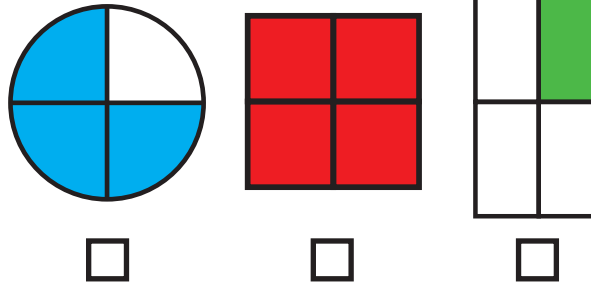


One o' clock

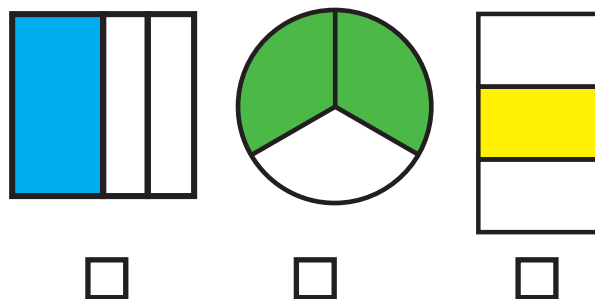
Half past 7

Half past 9



5 Tick if one quarter is shaded



6 Tick if one third is shaded

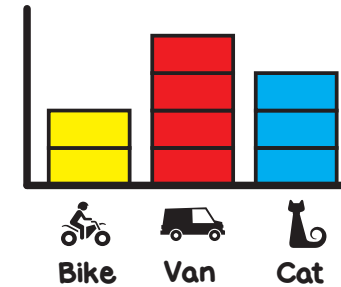


7

	Cars			
	Vans			
	Bikes			

How many cars?

8



How many vans are there?

9

Which is even?

27 26 47 57

10

$$6 + \text{?} = 10$$

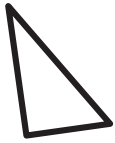
$$\text{?} =$$

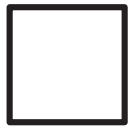
MY LAST SCORE?!

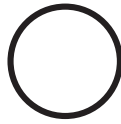
HAVE I BEAT THAT?!



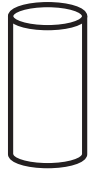
1 Tick the triangle







2 Tick the sphere



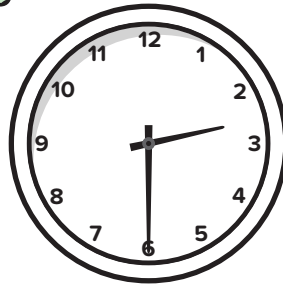




3 Use the least coins to make 17p



4

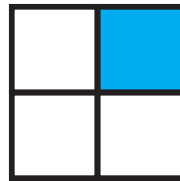


Two o'clock

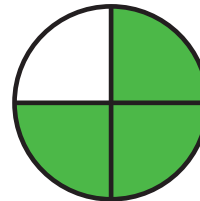
Half past 1

Half past 2

5 Tick if one quarter is shaded

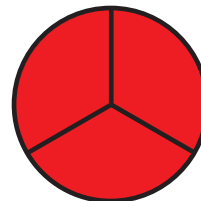






6 Tick if one third is shaded





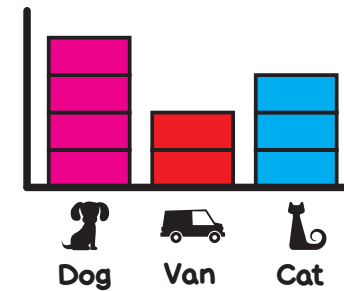


7

Buttons	
Blocks	////
Balls	////

How many blocks?

8



How many cats are there?

9 Which is odd?

24

33

96

72

10

$$5 + \text{dog} = 10$$

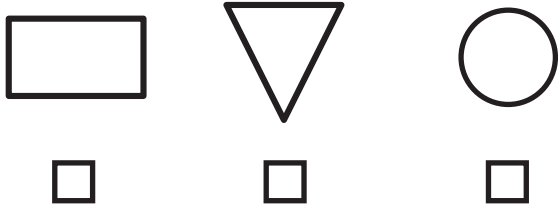
$$\text{dog} =$$



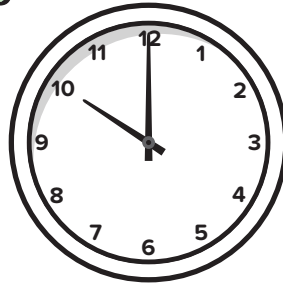
MY LAST SCORE?!

HAVE I BEAT THAT?!

1 Tick the rectangle



4






Ten o'clock

Half past 2

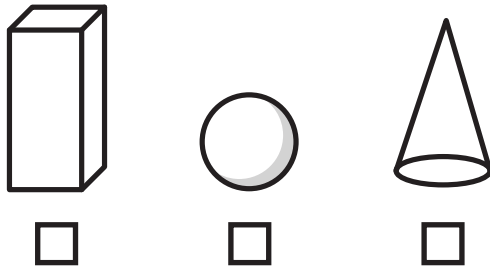
Half past 8

7

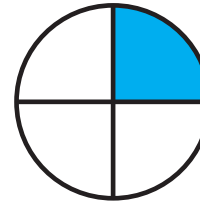
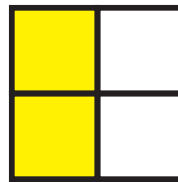
	Bikes	
	Cars	
	Vans	

How many vans?

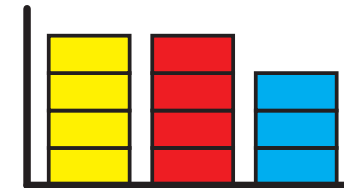
2 Tick the cuboid



5 Tick if one quarter is shaded



8



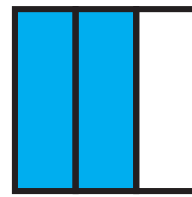
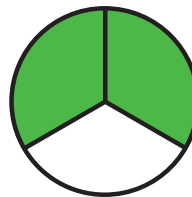
How many rabbits are there?

 Dog  Van  Rabbit

3 Use the least coins to make 13p



6 Tick if one third is shaded



9 Write the next 2 numbers

30 32 34

10

$$2 + \text{Dog} = 10$$

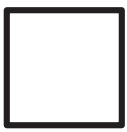
$$\text{Dog} =$$

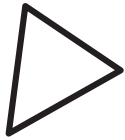
MY LAST SCORE?!

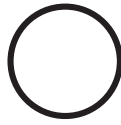
HAVE I BEAT THAT?!



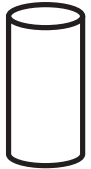
1 Tick the square







2 Tick the cone



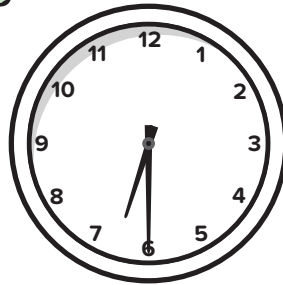




3 Use the least coins to make 17p



4

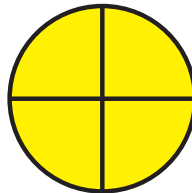


Three o' clock

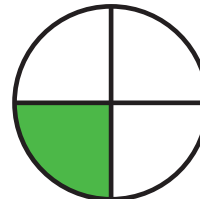
Half past 6

Half past 3

5 Tick if one quarter is shaded

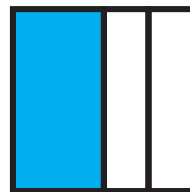






6 Tick if one third is shaded





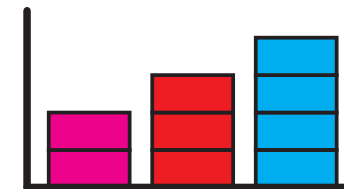


7

Blocks	
Buttons	////
Balls	////

How many balls?

8



How many cats are there?



Cat



Car



Rabbit

9 Write the next 2 numbers

49 51 53

10

$$7 + \text{😊} = 10$$

$$\text{😊} =$$

MY LAST SCORE?!

HAVE I BEAT THAT?!



ANSWERS

SAFE 6

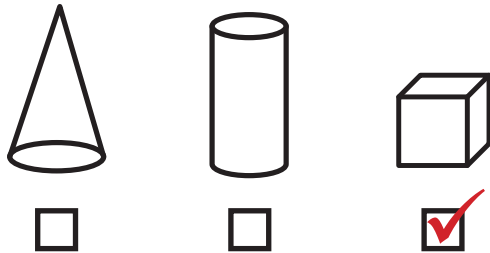
SET: 1

/10

1 Tick the circle



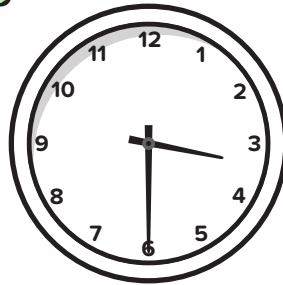
2 Tick the cube



3 Use the least coins to make 17p



4

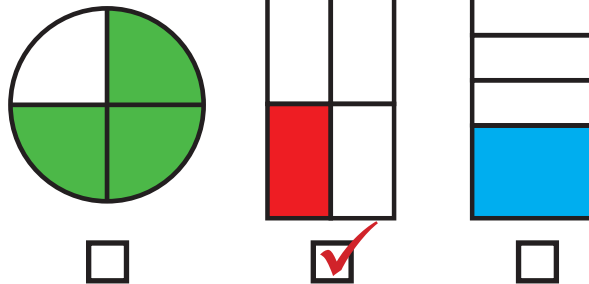


Half past 9

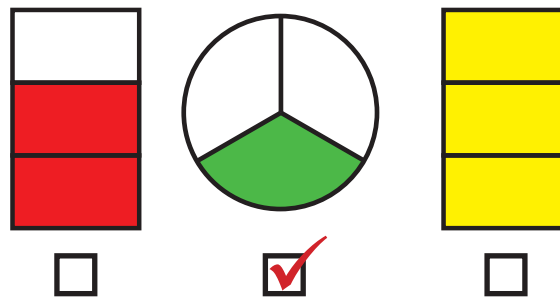
Six o'clock

Half past 3

5 Tick if one quarter is shaded



6 Tick if one third is shaded

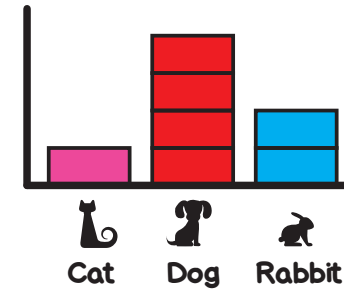


7

	Cars		
	Vans		
	Bikes		

How many cars? **7**

8



How many cats are there?

1

9 Which is odd?

13 42 10 86

10

$$3 + \text{😊} = 10$$

$$\text{😊} = 7$$



MY LAST SCORE?!

HAVE I BEAT THAT?!



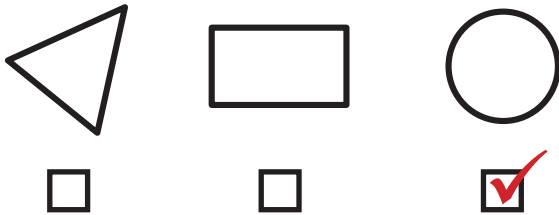
ANSWERS

SAFE 6

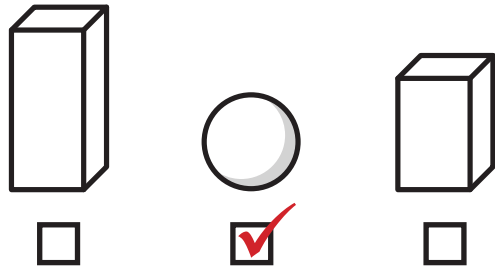
SET: 2

/10

1 Tick the circle



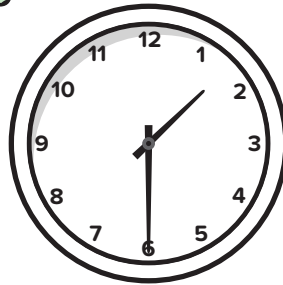
2 Tick the sphere



3 Use the least coins to make 13p



4



Half past 1

Five o'clock

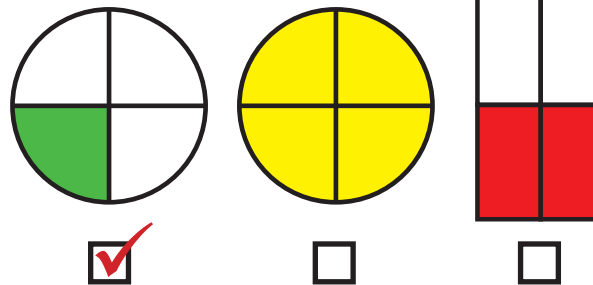
Half past 4

7

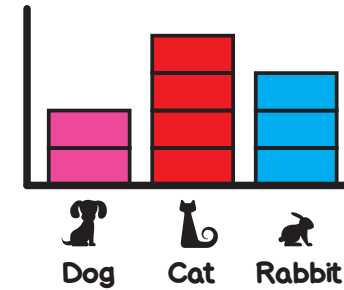
	Bikes	
	Cars	
	Vans	

How many bikes? **6**

5 Tick if one quarter is shaded



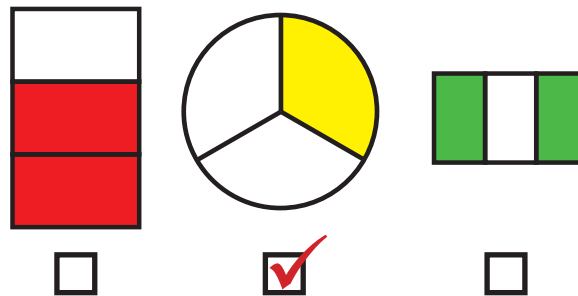
8



How many cats are there?

4

6 Tick if one third is shaded



9 Which is even?

15 **26** 11 47

10

$$1 + \text{car icon} = 10$$

$$\text{car icon} = 9$$



MY LAST SCORE?!

HAVE I BEAT THAT?!



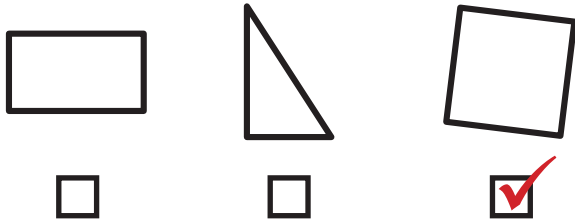
ANSWERS

SAFE 6

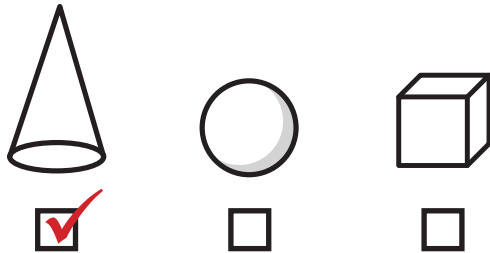
SET: 3

/10

1 Tick the square



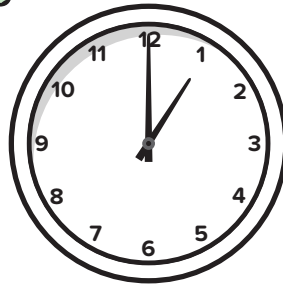
2 Tick the cone



3 Use the least coins to make 11p



4



One o' clock

Half past 7

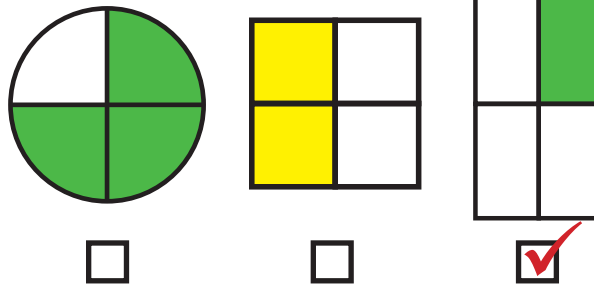
Half past 2

7

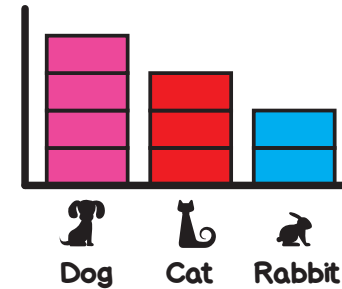
	Cars			
	Vans			
	Bikes			

How many vans? **12**

5 Tick if one quarter is shaded



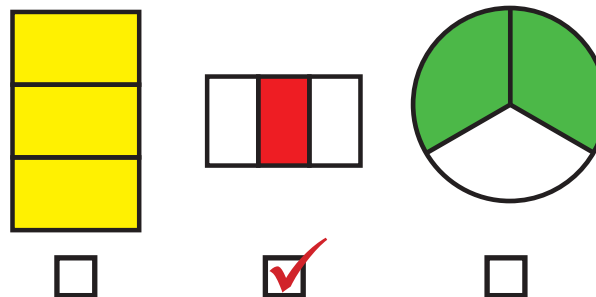
8



How many rabbits are there?

2

6 Tick if one third is shaded



9 Which is odd?

18 **41** 14 66

10

$$5 + \text{bike} = 10$$

$$\text{bike} = 5$$



MY LAST SCORE?!

HAVE I BEAT THAT?!



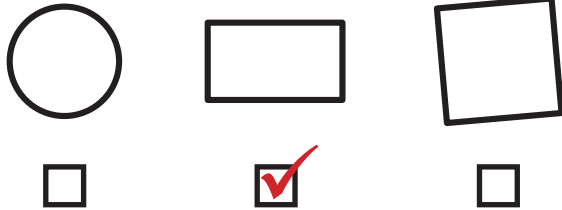
ANSWERS

SAFE 6

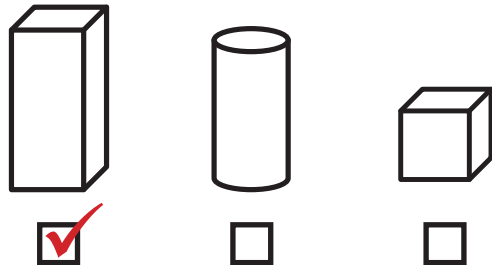
SET: 4

/10

1 Tick the rectangle



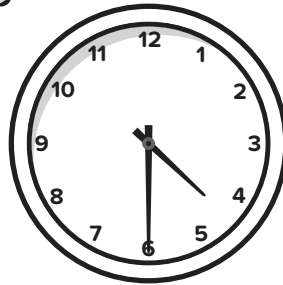
2 Tick the cuboid



3 Use the least coins to make 12p



4



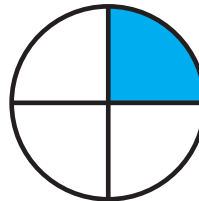
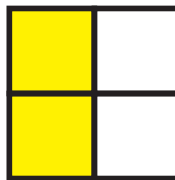
Half past 10

Nine o'clock

Half past 4

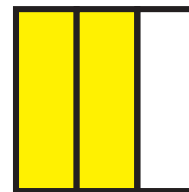
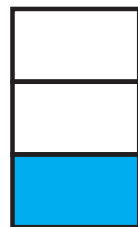
5

Tick if one quarter is shaded



6

Tick if one third is shaded



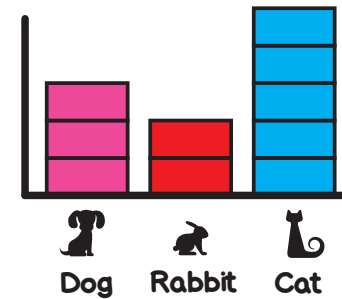
7

Balls		
Blocks		
Buttons		

How many balls?

8

8



How many rabbits are there?

2

9

Write the next 2 numbers

16 18 20 22 24

10

$$8 + \text{car} = 10$$

$$\text{car} = 2$$



MY LAST SCORE?!

HAVE I BEAT THAT?!



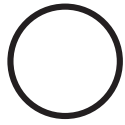
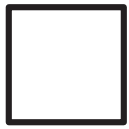
ANSWERS

SAFE 6

SET: 5

/10

1 Tick the square



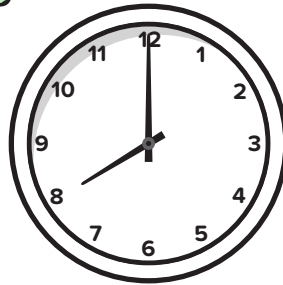
2 Tick the cone



3 Use the least coins to make 18p



4



Eight o'clock

Half past 1

Half past 5

7



Bikes



Cars



Vans

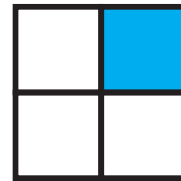
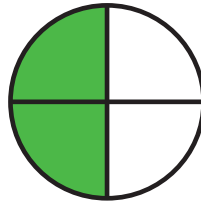


How many bikes?

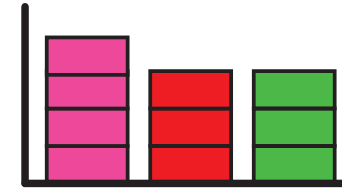
11

5

5 Tick if one quarter is shaded



8



How many cars are there?

3



Dog



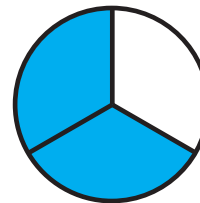
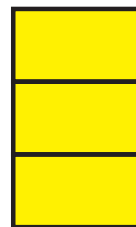
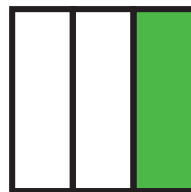
Car



Cat

6

6 Tick if one third is shaded



9

Write the next 2 numbers

61 63 65 67 69

10

$$1 + \text{van icon} = 10$$

$$\text{van icon} = 9$$



MY LAST SCORE?!

HAVE I BEAT THAT?!



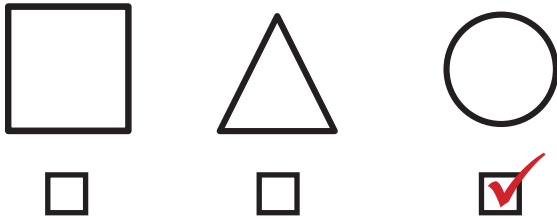
ANSWERS

SAFE 6

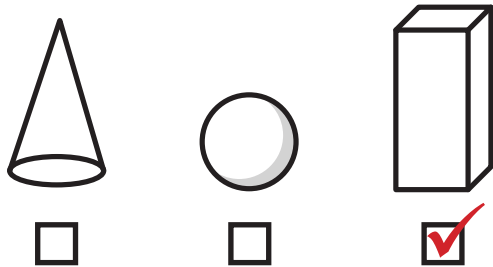
SET: 6

/10

1 Tick the circle



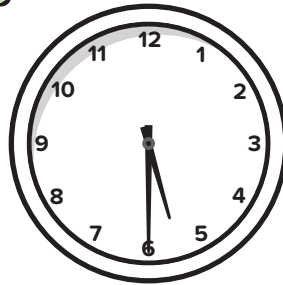
2 Tick the cuboid



3 Use the least coins to make 16p



4

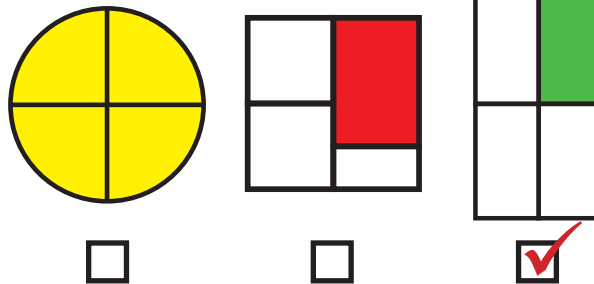


Six o' clock

Half past 2

Half past 5

5 Tick if one quarter is shaded

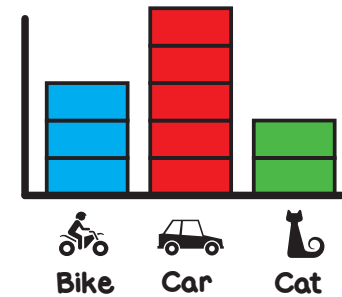


7

Balls	
Buttons	
Blocks	

How many buttons? **8**

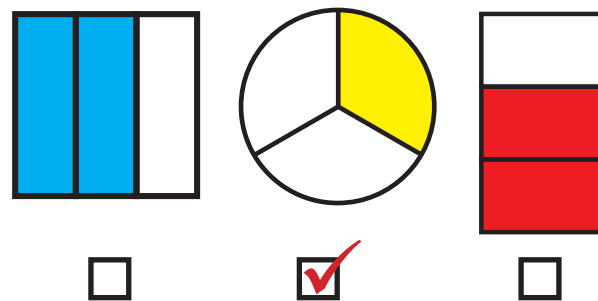
8



How many bikes are there?

3

6 Tick if one third is shaded



9 Which is odd?

27 36 44 82

10

$$9 + \text{😊} = 10$$

$$\text{😊} = 1$$



MY LAST SCORE?!

HAVE I BEAT THAT?!



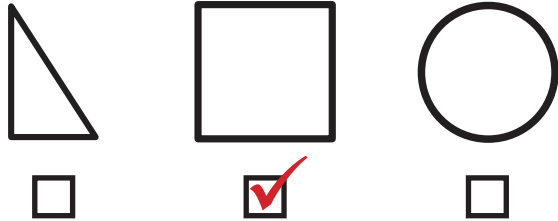
ANSWERS

SAFE 6

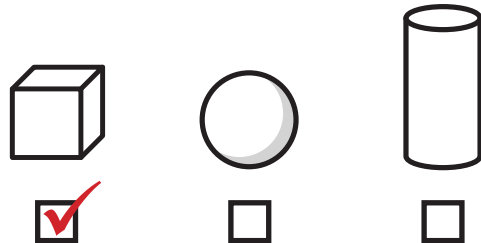
SET: 7

/10

1 Tick the square



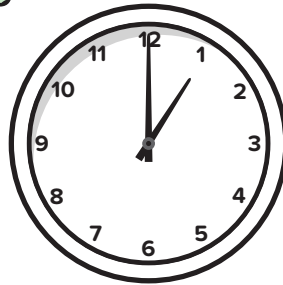
2 Tick the cube



3 Use the least coins to make 11p



4

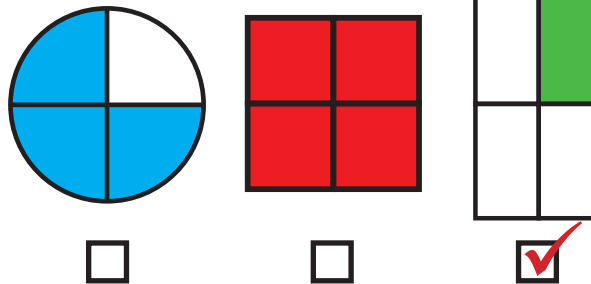


One o' clock

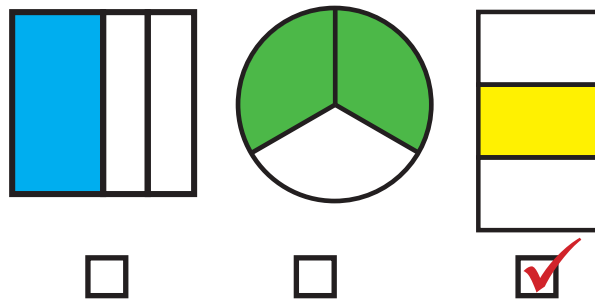
Half past 7

Half past 9

5 Tick if one quarter is shaded



6 Tick if one third is shaded

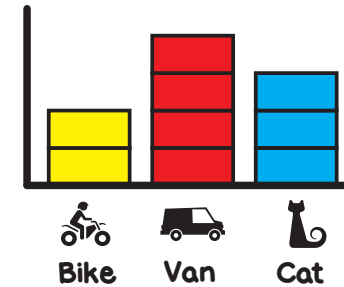


7

	Cars			
	Vans			
	Bikes			

How many cars? **12**

8



How many vans are there?

4

9 Which is even?

27 **26** 47 57

10

$$6 + \text{?} = 10$$

$$\text{?} = 4$$



MY LAST SCORE?!

HAVE I BEAT THAT?!



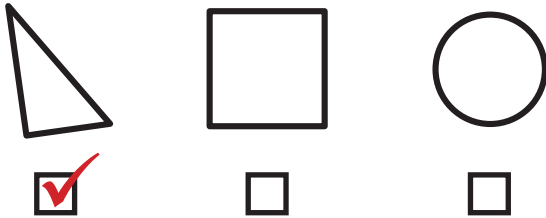
ANSWERS

SAFE 6

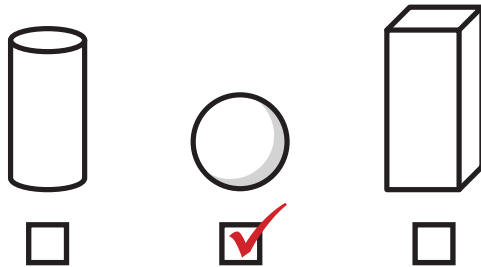
SET: 8

/10

1 Tick the triangle



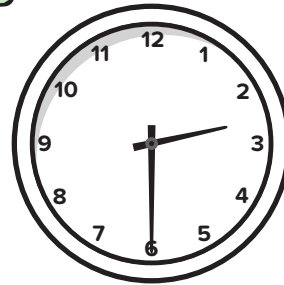
2 Tick the sphere



3 Use the least coins to make 17p



4



Two o'clock

Half past 1

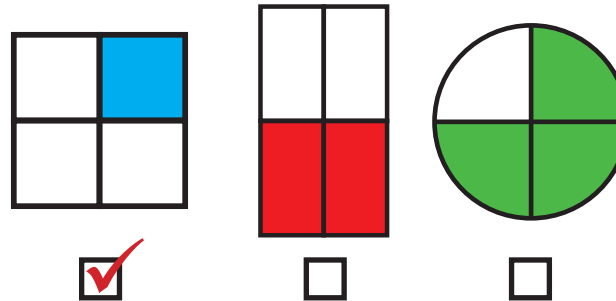
Half past 2

7

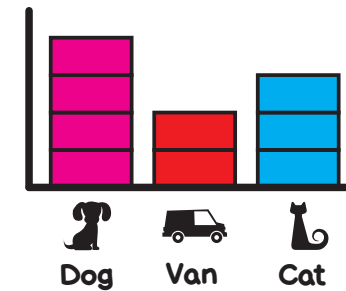
Buttons	
Blocks	////
Balls	////

How many blocks? **8**

5 Tick if one quarter is shaded



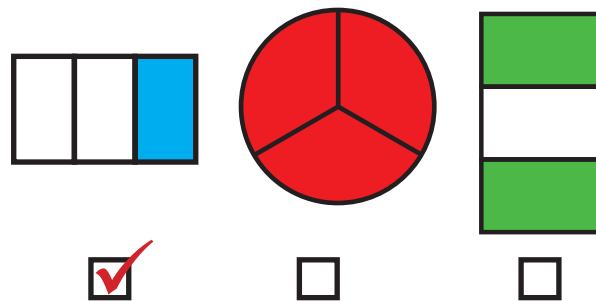
8



How many cats are there?

3

6 Tick if one third is shaded



9 Which is odd?

24 **33** 96 72

10

$$5 + \text{dog} = 10$$

$$\text{dog} = 5$$



MY LAST SCORE?!

HAVE I BEAT THAT?!



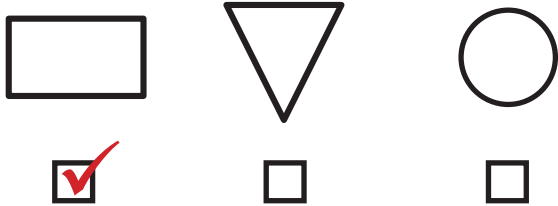
ANSWERS

SAFE 6

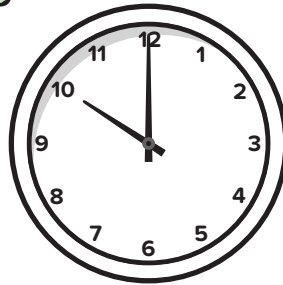
SET: 9

/10

1 Tick the rectangle



4






Ten o'clock

Half past 2

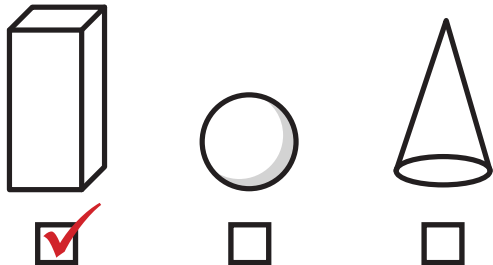
Half past 8

7

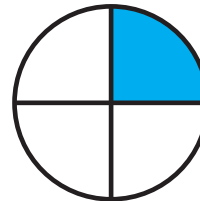
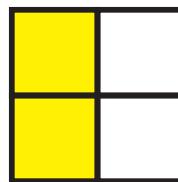
	Bikes	
	Cars	
	Vans	

How many vans? **14**

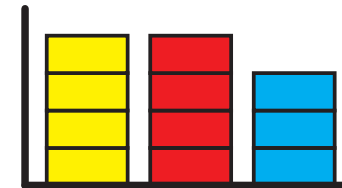
2 Tick the cuboid



5 Tick if one quarter is shaded



8



How many rabbits are there?

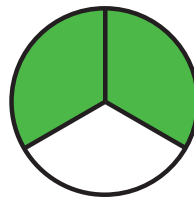
3

 Dog  Van  Rabbit

3 Use the least coins to make 13p



6 Tick if one third is shaded



9 Write the next 2 numbers

30 32 34 36 38

10

$$2 + \text{Dog} = 10$$

$$\text{Dog} = 8$$



MY LAST SCORE?!

HAVE I BEAT THAT?!

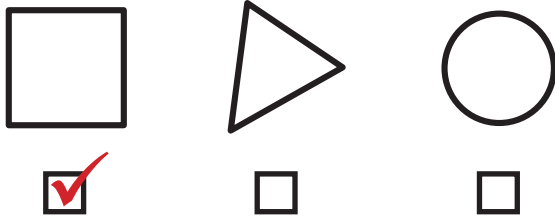
ANSWERS

SAFE 6

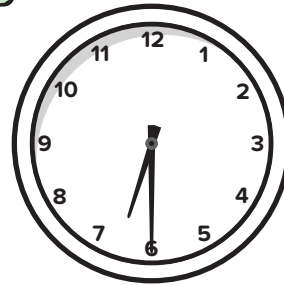
SET: 10

/10

1 Tick the square



4



Three o' clock

Half past 6

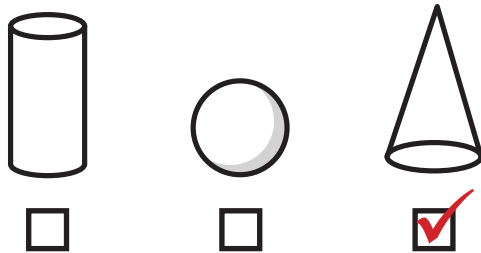
Half past 3

7

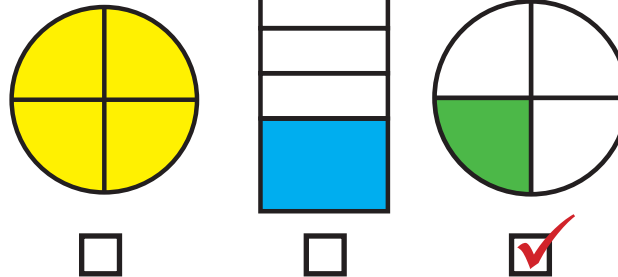
Blocks	
Buttons	////
Balls	////

How many balls? **9**

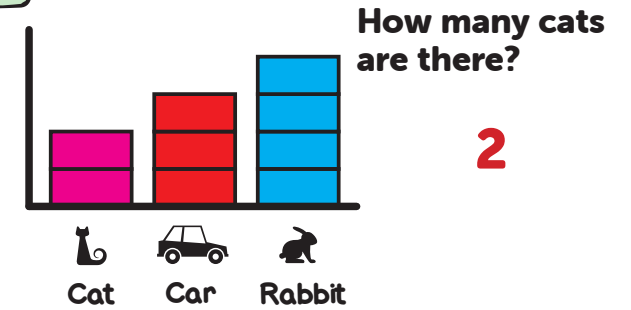
2 Tick the cone



5 Tick if one quarter is shaded



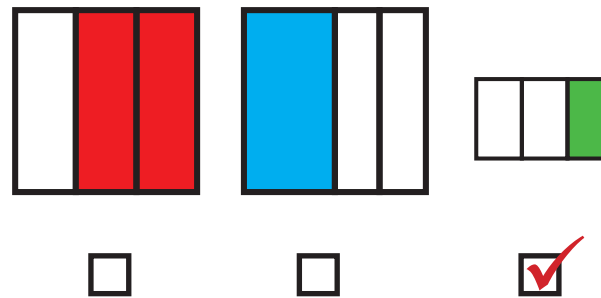
8



3 Use the least coins to make 17p



6 Tick if one third is shaded



9 Write the next 2 numbers

49 51 53 55 57

10

$$7 + \text{😊} = 10$$

$$\text{😊} = 3$$

MY LAST SCORE?!

HAVE I BEAT THAT?!

