Description: Recognises a 7-digit number given in words

Item Preview – Question 1

Close

Seven million forty-eight thousand five hundred and six may be written as:

- ○ 748 506
- ○ 7 048 506
- ○ 7 480 506
- ○ 70 048 506
- ○ 70 480 506

1.Description: Solves a two-step word problem involving multiplication

Item Preview – Question 2

Close

A box has 8 chocolate bars in each row, 7 rows in each layer, and 3 layers.

How many chocolate bars are there in the box?

- 45
- 77
- 80
- 168
- 224

1.Description: Solves a word problem involving sharing a total amount

Item Preview – Question 3

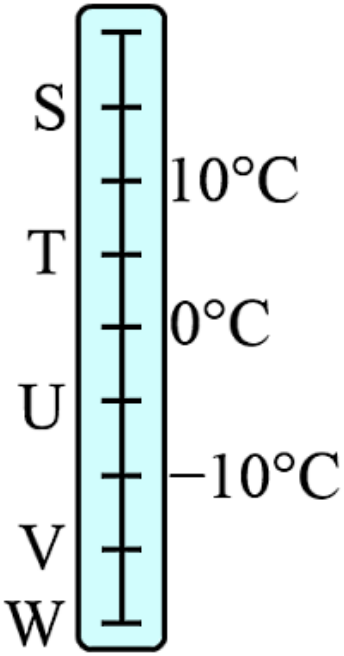
A man left $5000 in his will so that his widow received $1000, each of his four grandchildren $550 and each of his children $600.

How many children did the man have?

- ○ 1
- ○ 2
- ○ 3
- ○ 4

Item Preview – Question 4

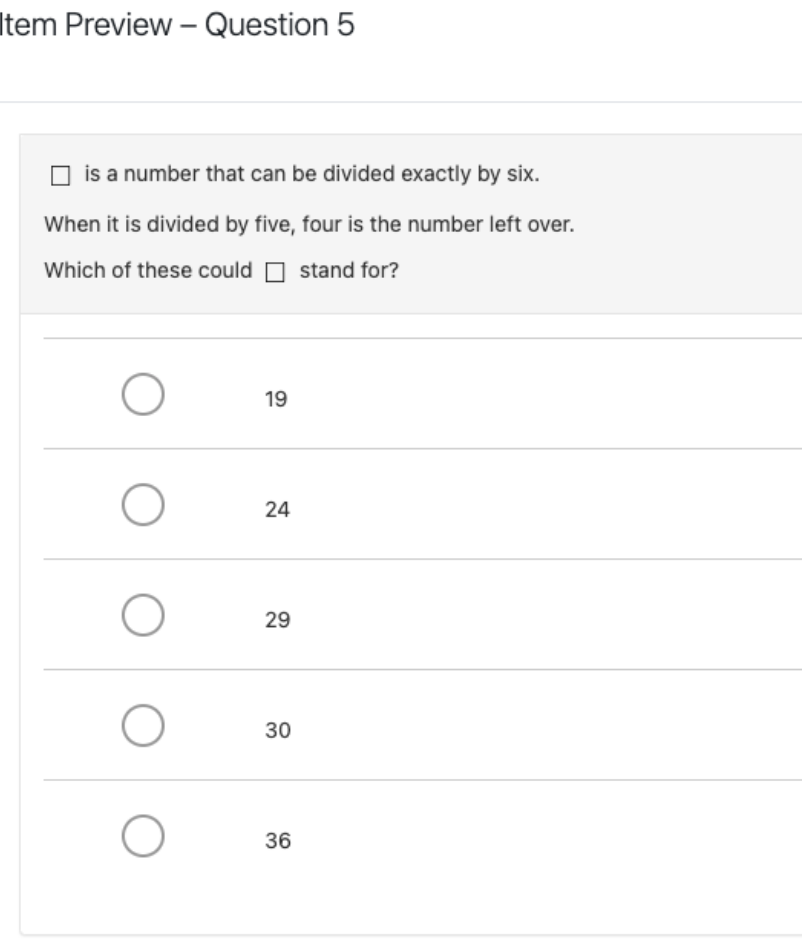
1.Description: Recognises the position of a given negative number on a scale



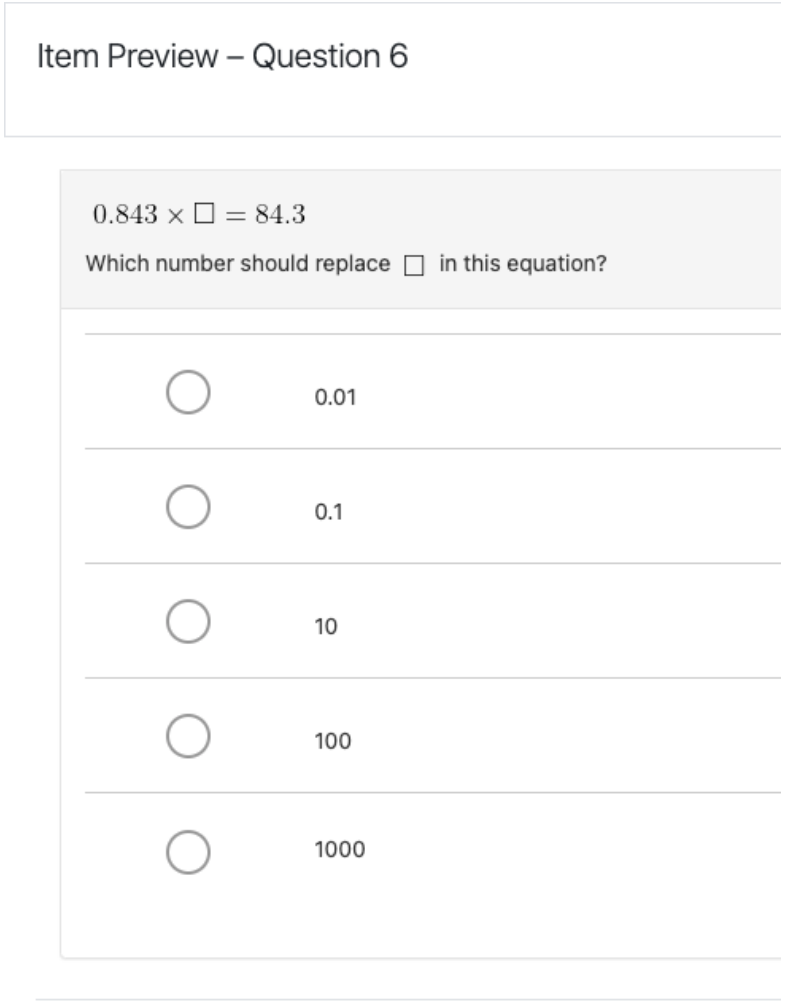
At what position is the temperature –15°C on the thermometer?

- S
- T
- U
- V
- W

1.Description: Solves a problem involving division, with a remainder



1.Description: Recognises that multiplying a decimal fraction by 100 moves the digits two places to the left



1.Description: Solves a word problem involving fractions of a given total

Item Preview – Question 7

Helen had 24 items in her shopping trolley.

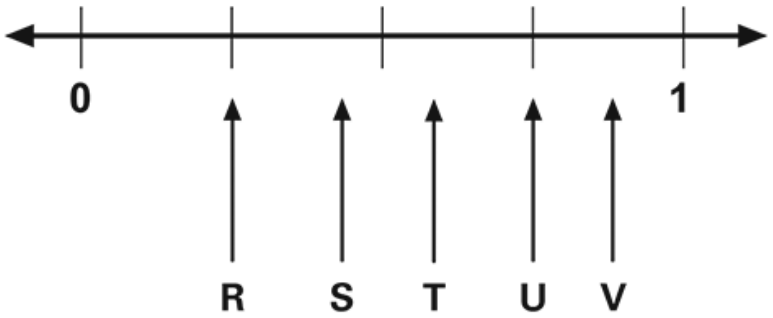
$\frac{1}{2}$ were vegetables.

$\frac{1}{3}$ were fruit.

How many other items were in the trolley?

- 8
- 6
- 4
- 3
- 2

Item Preview – Question 8



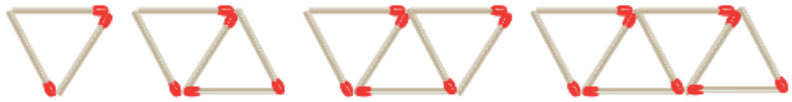
Which arrow is pointing to $\frac{4}{7}$ on the number line?

- R
- S
- T
- U
- V

1.Description: Locates a fraction on a number line

Item Preview – Question 9

Here are the first 4 shapes in a pattern.



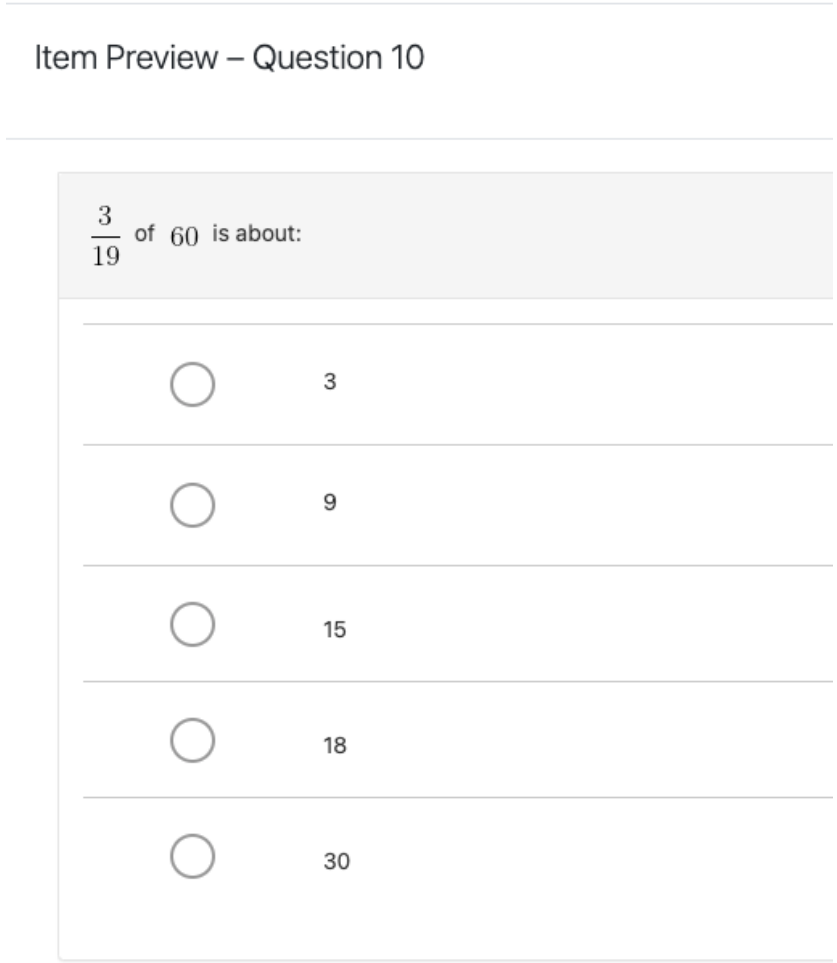
shape 1 shape 2 shape 3 shape 4

How many matches would there be in the **8th** shape of the pattern?

- 16
- 17
- 18
- 24
- none of these

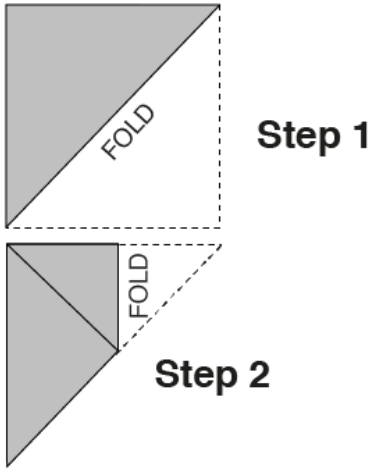
1.Description: Extends a number pattern shown in diagrams to describe a later diagram

1.Description: Estimates a fraction of a number



Item Preview – Question 11

A square piece of paper is first folded in half as in Step 1 and then folded again as shown in Step 2.



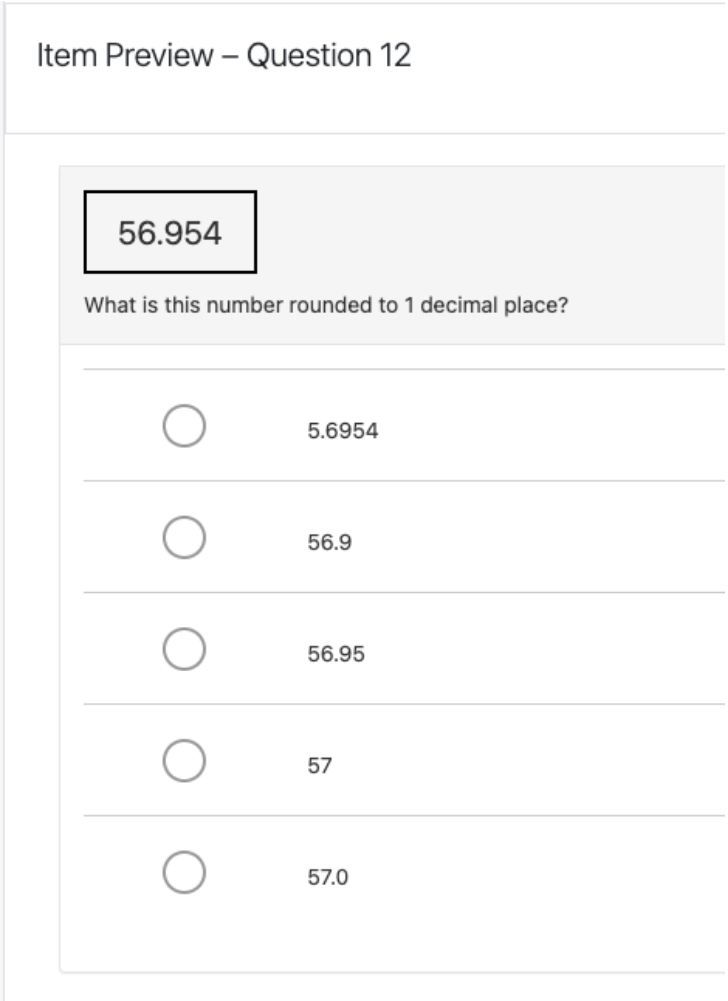
What fraction of the square can be seen in Step 2?

- $\frac{1}{4}$
- $\frac{3}{8}$
- $\frac{1}{3}$
- $\frac{2}{3}$
- $\frac{3}{4}$

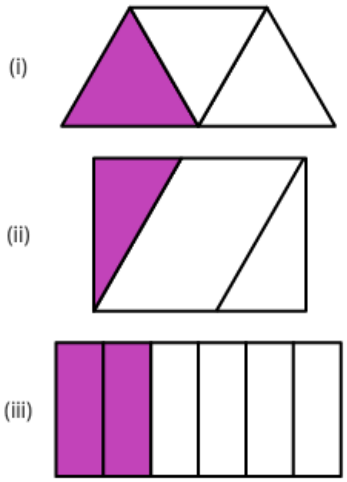
1.Sub-strand: Fractions and decimals

2.Description: Works out the fraction of a square made by repeated folding of the square

1.Sub-strand: Real numbers
2.Description: Rounds a 3-place decimal to 1 decimal place where rounding up the units place is required



Item Preview – Question 13



Which of these shapes is $\frac{1}{3}$ shaded?

- just (i)
- (i) and (ii)
- (i) and (iii)
- (ii) and (iii)
- They are all $\frac{1}{3}$ shaded.

1.Sub-strand: Location and transformation
2.Description: Recognises the reflection of a square in a diagonal mirror line

Item Preview – Question 14

Close

In which of these pictures has the square been reflected in the diagonal mirror line?

1.Sub-strand: Location and transformation

2.Description: Recognises the reflection of a square in a diagonal mirror line

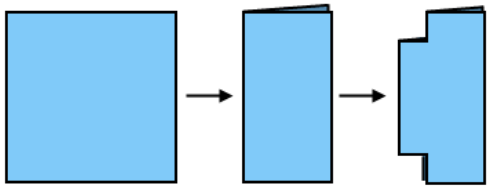
Item Preview – Question 15

Close

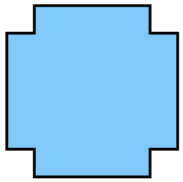
Nick folded a square of paper in half.

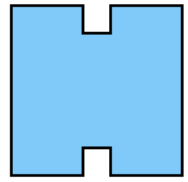
He cut two pieces out of the folded paper.

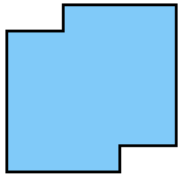
Then he opened out the paper again.

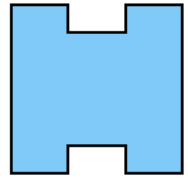


Which one of these shows the opened-out paper?









1.Sub-strand: Location and transformation

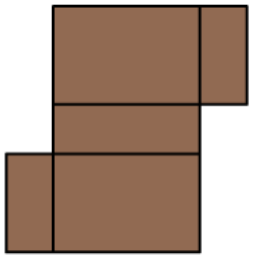
2.Description: Recognises the result of pieces cut from a folded square of paper

Item Preview – Question 16

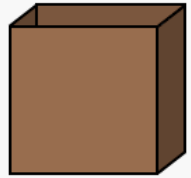
1.Sub-strand: Shape

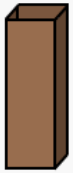
2.Description: Recognises the box that can be made using a given net

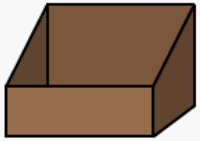
Close

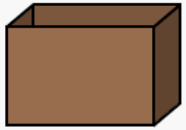


Which one of the open boxes below can be made using this net?





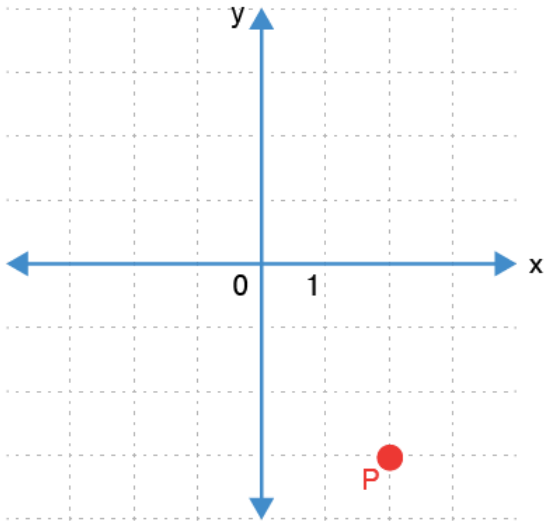




1.Sub-strand: Location and transformation
2.Description: Identifies the coordinates of a point

Item Preview – Question 17

Close



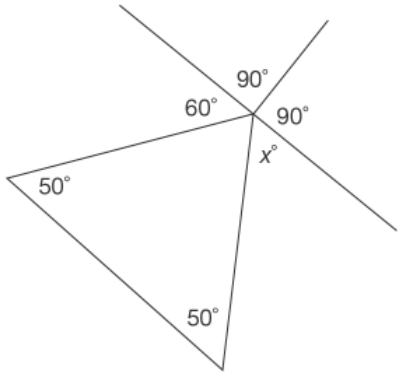
The coordinates of point P are

- (2, −3)
- (−3, 2)
- (−2, 3)
- (3, −2)

1.Sub-strand: Geometric reasoning
2.Description: Finds an angle at a point

Item Preview – Question 18

Close



Angle $x°$ =

- 40°
- 50°
- 60°
- 130°

Item Preview – Question 19

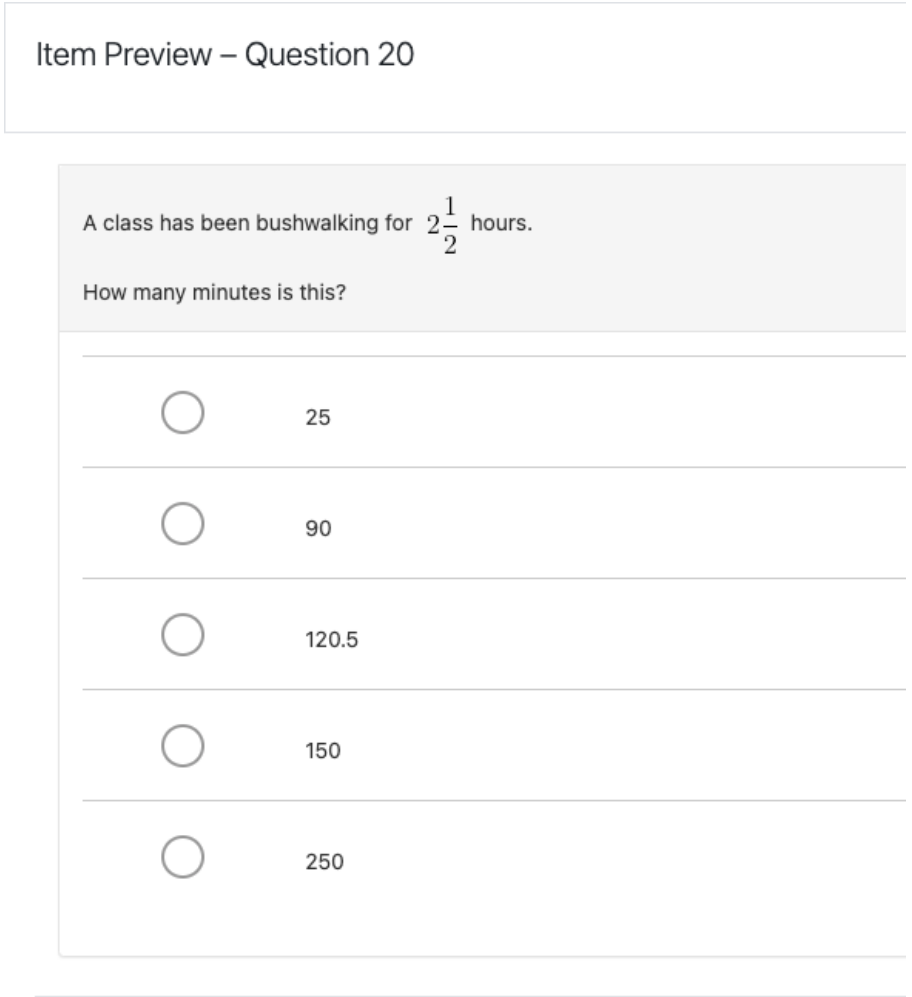
Which of these rotations will leave the star looking the same?

- $\frac{1}{5}$ of a full turn
- $\frac{1}{4}$ of a full turn
- $\frac{1}{3}$ of a full turn
- $\frac{1}{2}$ of a full turn
- none of these

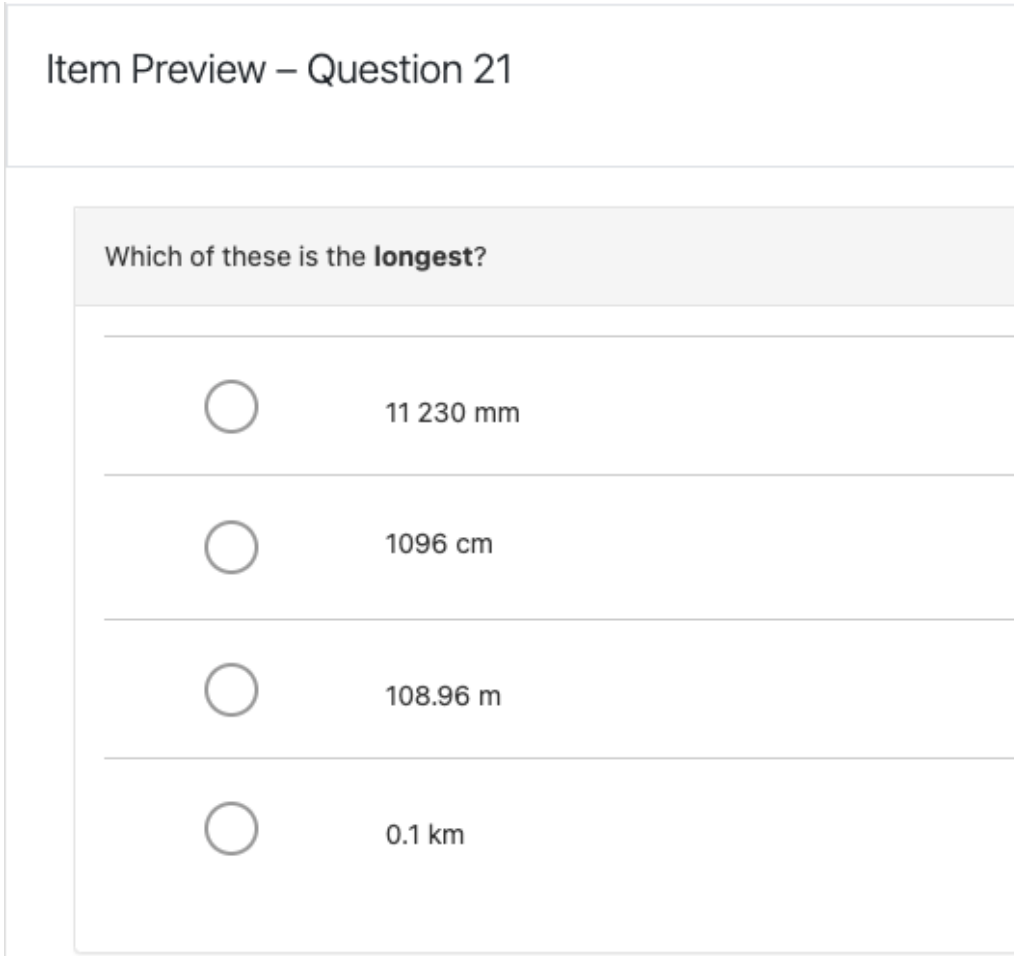
1.Sub-strand: Location and transformation

2.Description: Recognises the fraction of a turn rotation that leaves a given shape looking the same

1.Sub-strand: Using units of measurement
2.Description: Converts a time in fractions of an hour to minutes



1.Sub-strand: Using units of measurement
2.Description: Compares lengths given in different metric units



Item Preview – Question 22

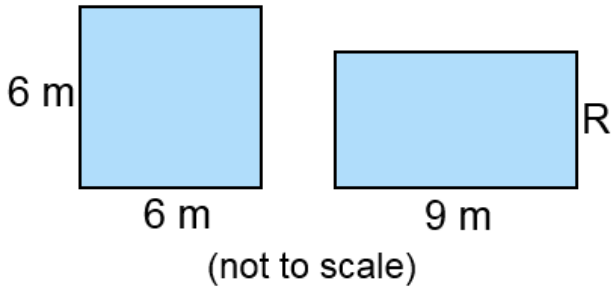
The time shown on this clock is:

- nineteen past nine
- thirteen to five
- thirteen to three
- quarter to four
- thirteen to four

1.Sub-strand: Using units of measurement
2.Description: Reads the time on an analogue clock to the nearest minute

Item Preview – Question 23

The square and the rectangle have the same area.



What is the length of side R?

- 3 m
- 4 m
- $4\frac{1}{2}$ m
- 5 m
- $5\frac{1}{2}$ m

1.Sub-strand: Using units of measurement

2.Description: Finds a side length of a rectangle given its area and the other side's length

1.Sub-strand: Using units of measurement
2.Description: Converts a length in centimetres to decimal metres

Item Preview – Question 24

What is 4050 cm in metres?

- 4.05
- 4.50
- 40.5
- 45.0
- 405

1.Sub-strand: Using units of measurement
2.Description: Solves a simple problem requiring the conversion of metric units of mass

Item Preview – Question 25

10 grams of gold is used to make a medal.

How many medals can be made from a gold bar that weighs 10 kg?

- ◯ 100
- ◯ 1000
- ◯ 10 000
- ◯ 100 000
- ◯ 1 000 000

1.Sub-strand: Using units of measurement
2.Description: Finds the area of a rectangle given its perimeter and one side length

Item Preview – Question 26

A rectangular playground has one side 6 metres long and a perimeter of 26 metres.

The area of the playground is:

- ○ 36 m²
- ○ 42 m²
- ○ 84 m²
- ○ 92 m²
- ○ 156 m²

1.Sub-strand: Data representation and interpretation
2.Description: Recognises the factors that ensure a fair sample is selected

Item Preview – Question 27

Lizi wanted to find out what students at her school thought about school uniforms.

She could only ask some of the students.

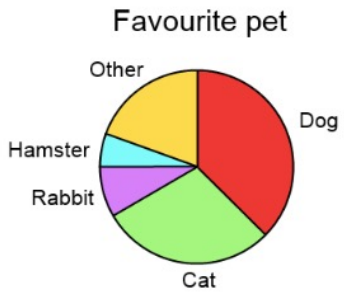
Which of these would be the **fairest** way to choose a sample of 30 students?

- ○ Choose 30 students from one Year 8 class.
- ○ Choose 30 students she knows.
- ○ Choose the first 30 students to arrive at school one day.
- ○ Choose 30 names from a box that has all the students' names in it.
- ○ Choose 30 people who attend the choir practice one lunchtime.

Item Preview – Question 28

A group of children was asked which animal was their favourite pet.

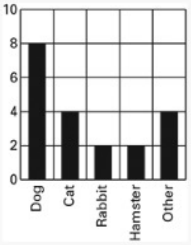
The pie chart shows the results.



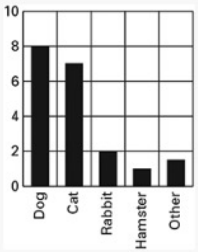
Anna, Ben, Claire and Damien have started drawing a bar chart to match the pie chart.

Who has the correct bars?

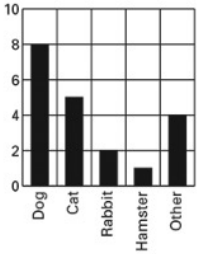
Anna



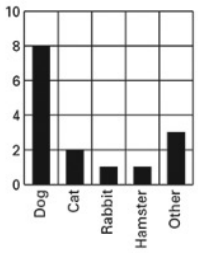
Ben



Claire



Damien



1.Sub-strand: Data representation and interpretation

2.Description: Recognises the column graph that shows the same information as a given pie chart

Item Preview – Question 29

1.Sub-strand: Data representation and interpretation
2.Description: Finds the total for a range of categories given in a table

Here are the number of pets the students at Darville School have.

Number of pets students have

Number of pets	Number of students
0	3
1	9
2	5
3	6
4	1
5	2
6 or more	4

How many students have more than 1 pet, but less than 5?

- 3
- 9
- 12
- 23
- none of these

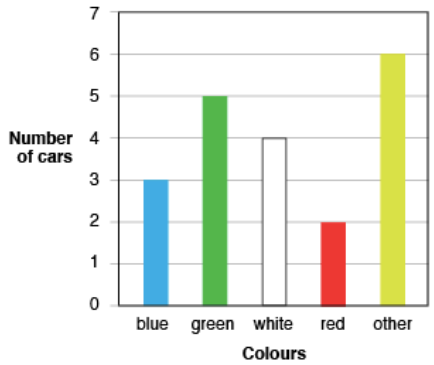
Item Preview – Question 30

The weight gain for Baby Lee from birth to 8 months was:

- 3 kg
- 3.5 kg
- 5 kg
- 7 kg
- 8 kg

1.Sub-strand: Data representation and interpretation
2.Description: Interprets information from a line graph

Item Preview – Question 31



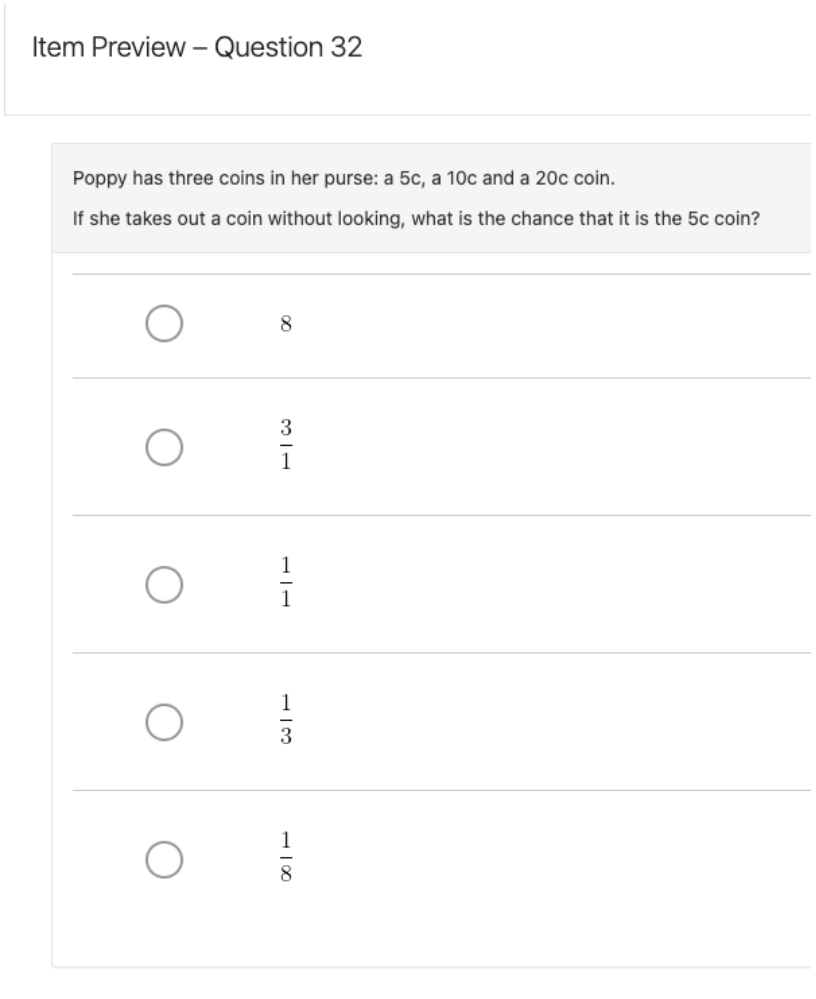
What fraction of cars in this survey were green?

- $\frac{1}{5}$
- $\frac{5}{20}$
- $\frac{5}{15}$
- $\frac{5}{12}$
- none of these

1.Sub-strand: Data representation and interpretation

2.Description: Interprets a column graph to determine a given category as a fraction

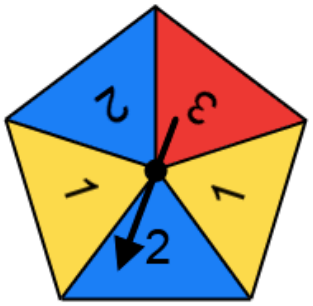
1.Sub-strand: Chance
2.Description: Determines the probability as fraction of a simple event involving 3 objects



Item Preview – Question 33

Angus made this spinner.

In this spin he has scored a 2.



Which statement is correct about the score Angus will get?

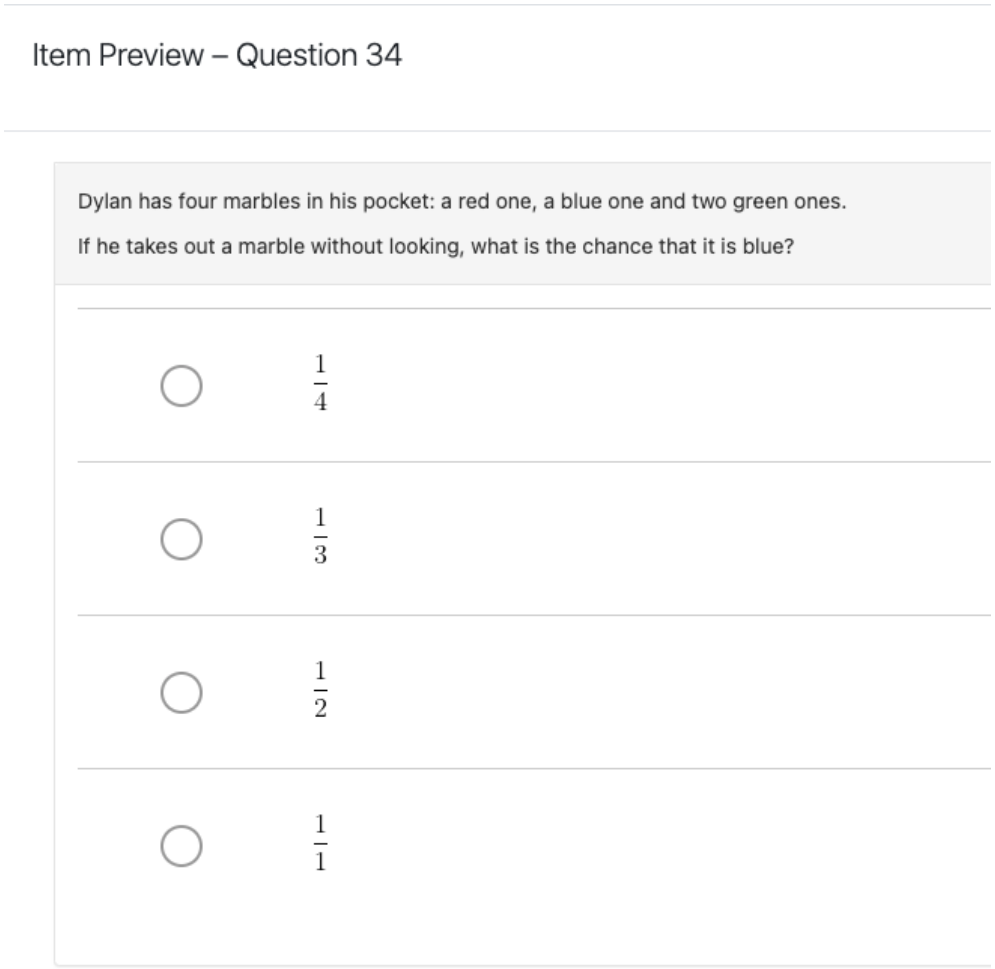
For each spin, Angus is:

- equally likely to score a 1 or a 2.
- more likely to score a 3 than a 2.
- less likely to score a 1 than a 3.
- more likely to score a 2 than a 1.

1.Sub-strand: Chance

2.Description: Chooses the correct statement about the possible outcomes on a given spinner

1.Sub-strand: Chance
2.Description: Deter mines the probability as fraction of a simple event involving 4 objects

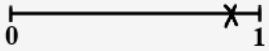


Item Preview – Question 35

Here are what some students thought about their chances of being chosen for the school's miniball team.

 Bruno: I have an even chance.	 Thi: I have no chance.
 Manisha: It is unlikely that I will get in.	 Jack: I have a 1 in 10 chance.
 Ethan: It is very likely that I will get picked.	

Which student has his or her chance marked on this scale with an X ?

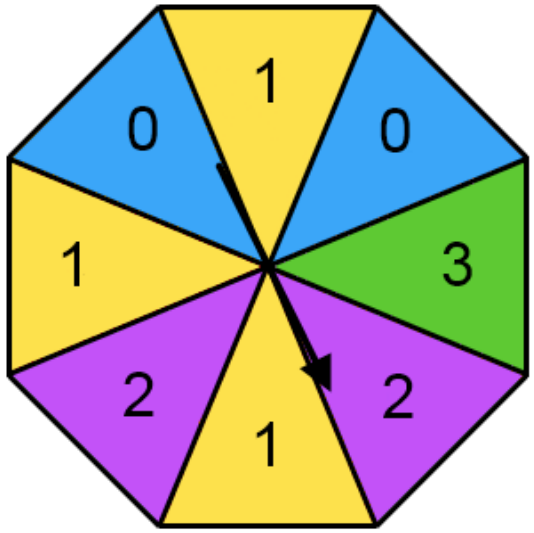


- Bruno
- Thi
- Manisha
- Jack
- Ethan

1.Sub-strand: Chance

2.Description: Matches the very likely chance to a position near 1 on a 0-1 scale

Item Preview – Question 36

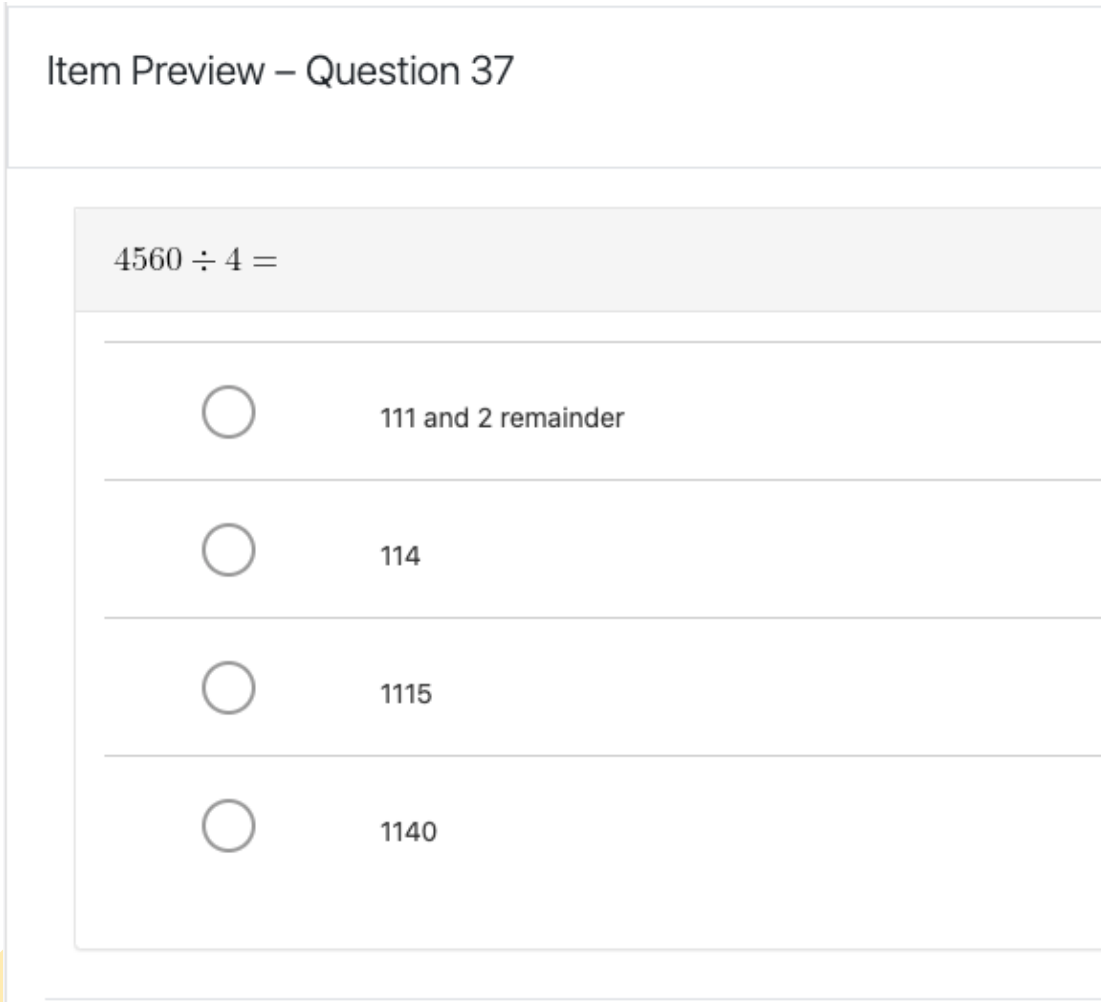


The probability of scoring a 2 on this spinner is

- 0.2
- 0.25
- 0.4
- 0.5

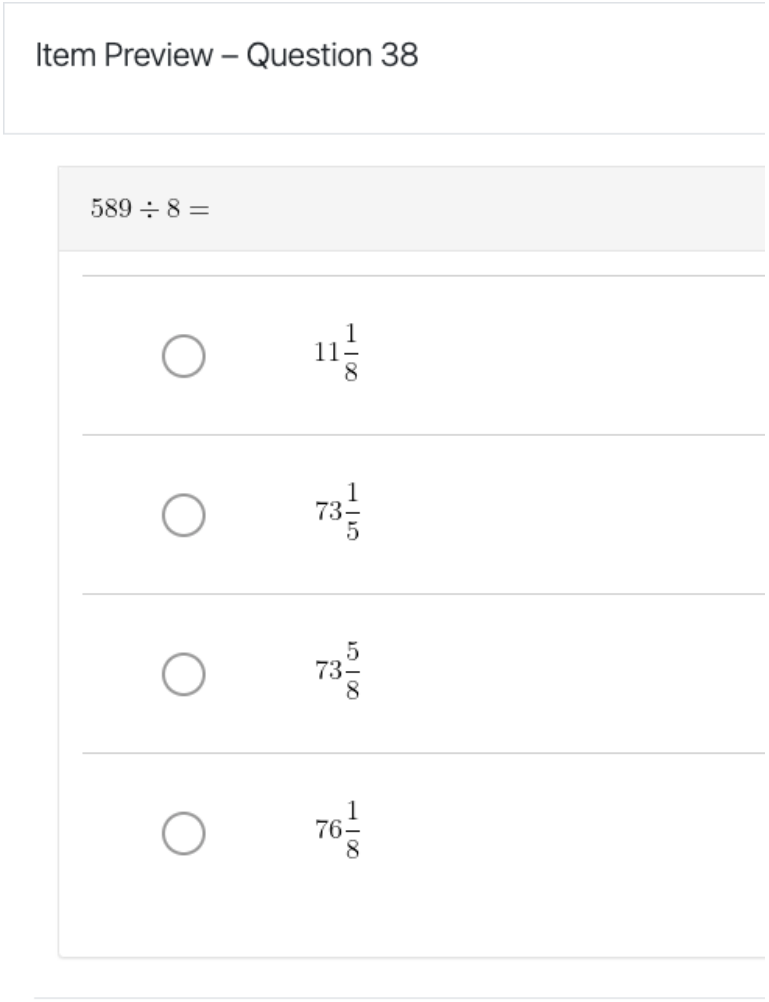
1.Sub-strand: Chance
2.Description: Finds the probability of a given event on a spinner and expresses it as a decimal

1.Sub-strand: Number and place value
2.Description: Divides a 4-digit number by a 1-digit number

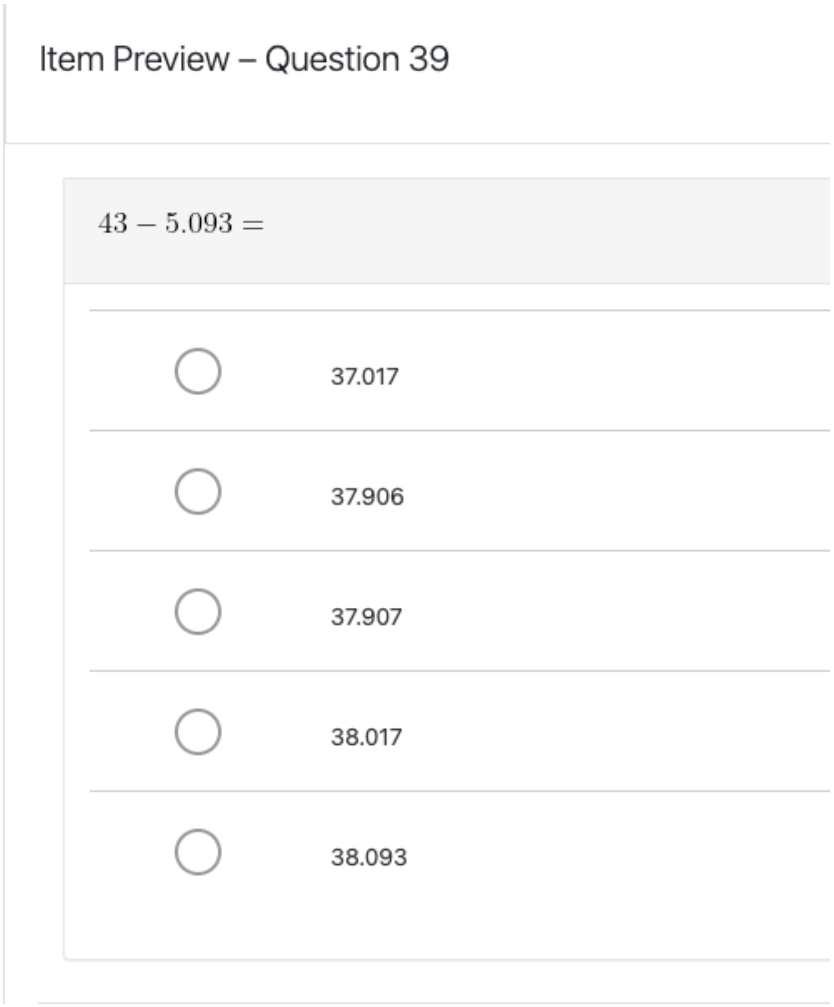


1.Sub-strand: Number and place value

2.Description: Divides a 3-digit number by a 1-digit number with the remainder as a fraction



1.Sub-strand: Fractions and decimals
2.Description: Subtracts a three-place decimal from a whole number



1.Sub-strand: Number and place value
2.Description: Compares simple equations with the four operations to find the equation with the largest missing number