YEAR 9 NUMERACY Calculator allowed – SET 8

Name .... **Date** ....

1

Preferred movie type	
Movie type	**number of students**
Drama	120
Science fiction	30
Comedy	60
Action	90

What fraction of these students preferred Action movies?

$\dfrac{1}{3}$ ⬭ $\dfrac{3}{10}$ ⬭ $\dfrac{1}{5}$ ⬭ $\dfrac{9}{20}$ ⬭

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2 A bakery sells one loaf of bread and four bread rolls for $5.00.

A loaf of bread and one bread roll cost $3.80.

How much does one roll cost?
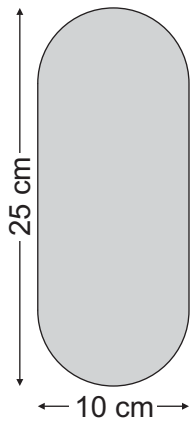
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3 Sam was facing north.

He made a 135° turn clockwise.

Which direction is he facing now?

⬭   north-east
⬭   north-west
⬭   south-east
⬭   south-west

4

25 cm

← 10 cm →

$\pi = 3.14$

What is the area of this shape?

307 cm^2	228.5 cm^2	564 cm^2	328.5 cm^2
⬭	⬭	⬭	⬭

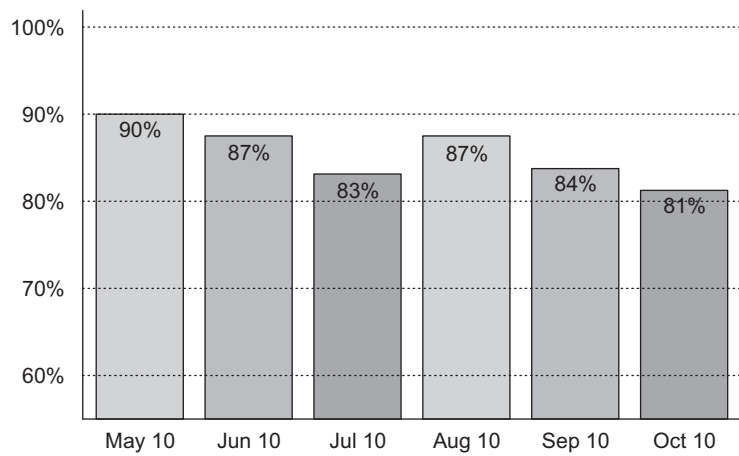**5** A pool filter processes 5400 litres of water in half an hour.

Calculate how many litres of water the filter processes in 12 seconds.

[   ] litres

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6   This graph shows the number of flights that were on time for 6 months.

On-Time Performance of an airline

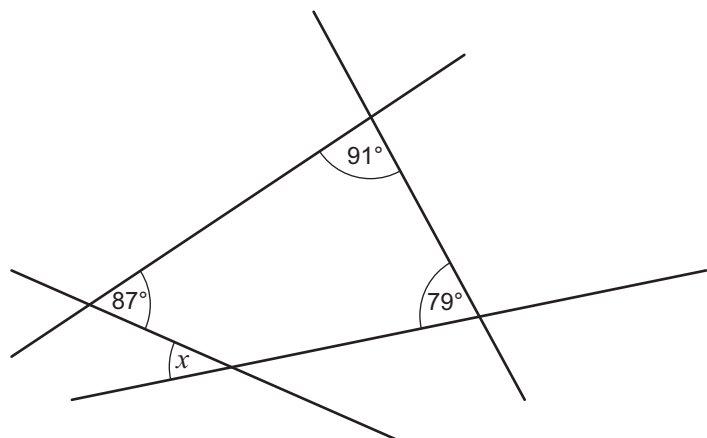There were 10 500 flights in September 2010.

How many flights in September were **not** on time?

flights

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7   Which whole numbers between 2 and 40 can be divided by 4 with a remainder of 2, and can also be divided by 5 with a remainder of 1?

8

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

- ○   77°
- ○   87°
- ○   93°
- ○   103°