



## Topic 16 - Working with Numbers

1

When 117 chocolates are shared between 14 people, each person gets 8 chocolates and there are 5 chocolates left over.

Which number sentence shows this information?

**A**  $14 + 8 \times 5 = 117$

**B**  $14 \times 5 - 8 = 117$

**C**  $14 \times 5 + 8 = 117$

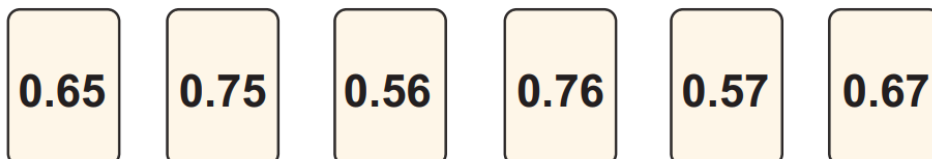
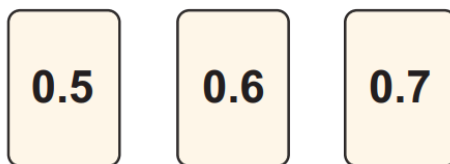
**D**  $14 \times 8 - 5 = 117$

**E**  $14 \times 8 + 5 = 117$



2

Here are some number cards:



Mia arranges all the cards in a line, so that the numbers increase from left to right.

Which number is on the middle card?

- A 0.6
- B 0.65
- C 0.75
- D 0.56
- E 0.57



3

A large packet of biscuits holds 36 biscuits.

Two large packets hold the same number of biscuits as three medium packets.

Two medium packets hold the same number of biscuits as three small packets.

How many biscuits does a small packet hold?

**A** 4

**B** 8

**C** 9

**D** 12

**E** 16



4

A movie theatre sold a total of 500 tickets in a week.

It sold all of these tickets on Monday, Tuesday, Wednesday and Thursday.

On Tuesday, it sold half as many tickets as on Monday.

On Wednesday, it sold half as many tickets as on Tuesday.

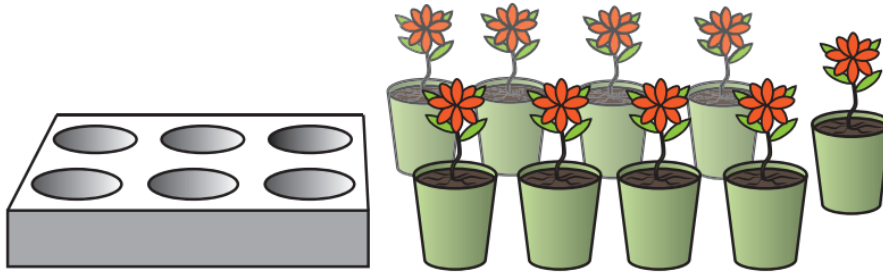
On Thursday, it sold 80 tickets.

How many tickets were sold on Monday?

- A** 60
- B** 120
- C** 140
- D** 168
- E** 240



5



At a garden shop, Claire is packing plants into boxes.

Each box holds 6 plants.

She has 149 plants.

She wants to fill 27 boxes.

How many more plants does she need?

- A 1
- B 5
- C 7
- D 13
- E 17



6

Merindah sold drinks at the class barbecue.

The drinks were orange or lemon.

She sold 33 drinks altogether.

Which of these statements **cannot** be correct?

- 1 She sold ten more orange drinks than lemon drinks.
- 2 She sold twice as many orange drinks as lemon drinks.
- 3 She sold five more lemon drinks than orange drinks.

- A** statement 1 only
- B** statement 2 only
- C** statement 3 only
- D** statements 1 and 2 only
- E** statements 2 and 3 only



7

Timothy writes down the number 24. He reverses the digits to make the number 42. He then works out that 42 is 18 more than his starting number, 24.

Nicole writes down a whole number between 10 and 99. She also reverses the digits of her number. She finds that this makes a number that is 72 more than her starting number.

What was the last digit of Nicole's starting number?

**A** 2

**B** 3

**C** 5

**D** 7

**E** 9



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## Answer Key

1	<p>If each of the 14 people get 8 chocolates, that is <math>14 \times 8</math> chocolates.</p> <p>There are 5 chocolates left over, so these are extra chocolates added to the <math>14 \times 8</math>, so the total number of chocolates is <math>14 \times 8 + 5</math>.</p> <p>There are 117 chocolates altogether, so the correct answer is <b>E <math>14 \times 8 + 5 = 117</math></b>.</p> <p>Alternatively, 117 chocolates shared between 14 people is represented by the calculation <math>117 \div 14</math>. The answer is 8 with a remainder of 5, so 117 must be equal to <math>14 \times 8 + 5</math>.</p>
2	B
3	E
4	E
5	D
6	A
7	E