

# Year 9 – Set Two

Name ..... Date .....

Answer these questions without using a calculator.

**1**

What are the three different **prime** numbers that divide exactly into 2233?

,                      ,
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**2**

If  $a$ ,  $b$  and  $c$  represent numbers and  $a > b > c$ , which one of these statements is **always** true?

- $a > b - c$
- $c < a - b$
- $b + a > b + c$
- $b - c < b - a$

**3**

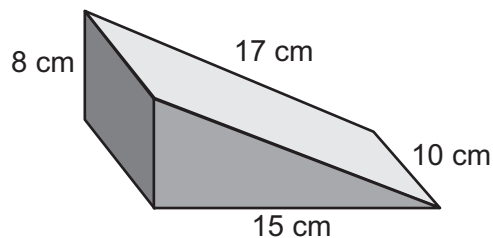
A small watering can is filled with 5 litres of water.  
After watering 7 pot-plants, it is about half full.

About how many millilitres (mL) of water did each plant receive, if the amount was the same for each?

- |                       |                       |                       |                       |
|-----------------------|-----------------------|-----------------------|-----------------------|
| 250                   | 350                   | 500                   | 700                   |
| <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

**4**

This right triangular prism has five faces.



What is its total surface area (in  $\text{cm}^2$ )?

- |                       |                       |                       |                       |
|-----------------------|-----------------------|-----------------------|-----------------------|
| 440                   | 520                   | 600                   | 640                   |
| <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

**5**

$$\frac{3k}{5} = k + 6$$

What is the value of **k** in this equation?

**k** =

**6**

At a sale, a jacket is marked down from \$40 to \$28.  
What percentage discount is this?

12%

28%

30%

70%

**7**

What is the answer to  $0.085 \div 0.5$ ?

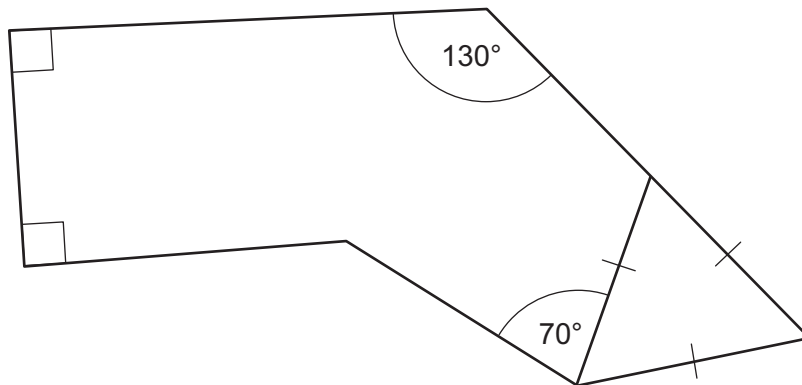
17

1.7

0.17

0.017

**8**



In this diagram, what is the size of the largest angle in the hexagon?