

**6T Maths Homework – 8/2/19**

1) Arrange the following values in **ascending order**

**16%**       $\frac{1}{8}$       **0.2**       $\frac{3}{25}$

2) Put these values in order, **largest to smallest**

**56%**       $\frac{1}{2}$       **0.6**       $\frac{11}{20}$

3a) What is 270 written as a product of its prime factors?

**1    2    3    4    5    6    7    8**

b) Which of the above numbers are ....

i) Factors of 28?

ii) Multiples of 3?

iii) Cube numbers?

c) What is the **lowest common multiple** of **16** and **24**?

d) What is the **highest common factor** of **24** and **36**?

e) Write down all of the **prime** numbers between **50** and **60**

3) A shop has 3276 coat hangers.

They store the coat hangers in boxes of 13.

The shop also has 2970 t-shirt, which are stored in boxes of 15.

How many boxes of coat hangers and t-shirts does the shop have in total?

4) Ben has a jar weighing 236g.

When he puts his collection of 36 identical marbles inside the jar, the combined weight of the jar and the marbles is 1.452kg.

What is the weight of each marble? **Give your answer in g**

5) A triathlon involves swimming, cycling and running.

The run is 10km long. The swim is a quarter of the length of the run.

The cycle ride is five times the length of the swim.

What **percentage** of the total length of the race is the run?

6) A shop sells only vanilla or chocolate ice creams.

One day  $\frac{4}{7}$  of the ice creams sold were chocolate.

They sold 57 vanilla ice creams.

How many ice creams did they sell in total?

**Homework due in by Wednesday 13<sup>th</sup> February**  
**Please see me before this if you have any problems**

