S3 (3.1) Level 4 Proportion.notebook

September 22, 2017

Daily Practice	8.9.2017
Q1. State the equation of the line	(0, 4)
Q2. Share £30 in the ratio 3:2 $\frac{3}{5}$ $5\sqrt{30}$ $\frac{4}{5}$ $\frac{3}{2}$ $\frac{3}{5}$	$2=5 \qquad \begin{array}{c} M - \frac{q-2}{2} = \frac{1}{2} \\ 0 + 2 = \frac{1}{2} \\ \gamma = \frac{1}{2x + 4} \end{array}$
Q3. Calculate the mean, median a 3,4,5,7,8,9 7,8,4,5,3,9	nd range of $man = \frac{3b}{b} = \frac{3}{b}$
Q4. Factorise $3x - 6 = 3(x-2)$	$multion = \underline{b}$
Q5. $1\frac{3}{8} - \frac{1}{5} = \frac{1}{8} - \frac{1}{5}$ = $\frac{5}{40} - \frac{8}{40} = \frac{1}{40} = \frac{1}{40}$	Range= 9-3= <u>6</u>

Today we are going to be learning about proportion.

Direct Proportion

Two quantities are in direct proportion if a change in one always accompanys a change in the other in the same ratio.

Examples:

1. John sells a box of 5 cupcakes for £7.85. How much would John sell 3 cupcakes for? | cupcake ~ 7.85.75 = £1.57 3 cupcakes = £1.57×3 = £<u>4.71</u>

2. It takes Tim 3 and a half hours to drive 190km. How far would he travel in |hour = 190÷3·5 = 54·29 2hour s = (08.38 km (2d.p.) 2 hours?



Inverse Proportion

Two quantities are inversely propotional if as one quantity increases, the other decreases proportionally and vice versa.

Examples:

1. It takes 6 chefs 3 hours to prepare before a wedding dinner. How long would it take 8 chefs to prepare the same dinner?

2. A car drives at 50kmph and takes 2 hours to cover a distance, how long would it take the car to cover the same distance at 80kmph?

Today we will be learning about inverse proportion.

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 Daily Practice
 13.9.2017

 Q1. Multiply out and simplify 7(x + 3) + 2x² + 3x(4x - 1)
 1

Q2. Find the cost of a house that was worth £130 000 and increased in value by 15%

Q3. Round 7.858 to 2 significant figures

 $\bigcirc 4.3\frac{2}{3} \div \frac{1}{5}$

Q5. Calculate the value of x

