





















MNU 3-08a




















Homework 5

Gold Level

Outcome 1 - Indirect Proportion











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|--|---|
|  It takes 2 men 8 hours to shovel snow. How long would it take 4 men?  |  It takes 6 men 6 days to tile a roof. How long would it take 9 men?  |
|  3 tellers clear a queue in the bank in 20 minutes. How long would it take 5 tellers?  |  It takes 6 men 8 hours to paint a wall. How long would it take 16 men?  |
|  4 waiters take 9 minutes to clear tables. How long would it take 12 waiters?  |  It takes 3 stage hands 12 minutes to change a set. How long would it take 9 stage hands?  |
|  2 cleaners take 12 hours to clean a school. How long would it take 6 cleaners?  |  It takes 3 trucks 4 hours to clear debris from a building site. How long would it take 2 trucks?  |
|  It takes 4 men 15 hours to fix a road. How long would it take 5 men?  |  It takes 4 firemen 18 minutes to extinguish a blaze. How long would it take 9 firemen?  |

Outcome 3 - Ratio Calculations











- | | |
|---|---|
|  Boys : Girls = 4 : 5
184 boys, how many girls?  |  Men : Women = 3 : 4
81 men, how many women?  |
|  Dance : Pop = 5 : 4
165 dance songs, how many pop songs?  |  Magicians : Singers = 2 : 7
96 magicians, how many singers?  |
|  Laptops : Desktops = 8 : 3
256 laptops, how many desktops?  |  Lions : Zebras = 2 : 9
126 lions, how many zebras?  |
|  Notes : Coins = 3 : 9
129 notes, how many coins?  |  Trains : Planes = 6 : 7
144 trains, how many planes?  |
|  Diesel : Unleaded = 5 : 8
208 unleaded, how many diesel?  |  Carrots : Peas = 3 : 20
1260 peas, how many carrots?  |

Outcome 2 - Simplifying Ratio

Simplify the following Ratio...

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|--|--|
|  $\frac{1}{2} : 1$ |  $\frac{1}{4} : 5$ |
|  $\frac{1}{3} : 2$ |  $\frac{1}{5} : 9$ |
|  $\frac{2}{3} : 10$ |  $\frac{3}{4} : 30$ |
|  $\frac{2}{5} : 12$ |  $\frac{3}{10} : 2$ |
|  $\frac{5}{6} : 2$ |  $\frac{4}{7} : 60$ |

Outcome 4 - Proportional Division

- | | |
|--|---|
|  Divide 30 in the ratio of 1 : 2 : 3. |  Share 45 in the ratio of 2 : 3 : 4. |
|  Share 33 in the ratio of 2 : 4 : 5 |  Divide 72 in the ratio of 1 : 3 : 4. |
|  Divide 700 in the ratio of 5 : 2 : 3. |  Share 160 in the ratio of 4 : 1 : 3. |
|  Divide 6300 in the ratio of 2 : 4 : 3. |  Share 5000 in the ratio of 7 : 2 : 1. |
|  Share 6000 in the ratio of 7 : 2 : 6. |  Divide 3000 in the ratio of 4 : 5 : 11. |