MATHEMATICS   WORKSHEET   CLASS VIII

TOPICS: DIRECT AND INVERSE PROPORTION & PLAYING WITH NUMBERS

Answer the following questions:

1. It is given that p varies directly as q:
    (i)   Write an equation which relates p and q. Find the constant of variation, if p is 6 and q is 15
    (ii)   Find p, when q is 35.

2. In a camp there is sufficient food for 105 soldiers for 21 days, if 42 soldiers leave the camp, how long the food last?

3. If a deposit of ₹1000 earns an interest of ₹250 in 3 years, how much interest would a deposit of ₹3600 earn in 3 years with the same rate of interest?

4. If $7x0$ is a multiple of 5, what are the smallest and greatest value of x?

5. Express as a two digit or three digit number.
    (i) $4 \times 100 + 5 \times 10 + 3$
    (ii) $9 \times 10 + 6$

6. 13 men can dig 117 m long trench in one day, how many men should be employed for digging 225m long trench in one day?

7. A garrison of 1200 men has provision for 25 days. A rein forcement of 300 men arrives. For how many days will the provision lasts?

8. Express in generalized form.
    (i)   749   (ii)   81

9. A labourer is paid ₹806 for 13 days of work. If he receives ₹1798, for how many days did he work?

10. Find the value of the letters in the following.
    (i)
$$\begin{array}{r} 5\ 6\ A \\ +\ C\ B\ 8 \\ \hline 9\ 9\ 7 \end{array}$$
    (ii)
$$\begin{array}{r} Q\ 3 \\ \times\ \ Q \\ \hline 2\ 6\ Q \end{array}$$

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