

## Inverse Proportion



**\*\* You need a calculator for this worksheet.**

1. If 20 men can load a ship in 4 days, how long would it take 10 men ?
2. If 16 men can load a ship in 6 days, how long would it take 12 men ?
3. If 8 men can load a ship in 12 days, how long would it take 16 men ?
4. If 6 men can load a ship in 5 days, how long would it take 15 men ?
5. If 4 men can build a house in 40 days, how long would it take 10 men to build the same house ?
6. If 2 men can build a house in 60 days, how long would it take 12 men to build the same house ?
7. If 9 men can build a house in 8 days, how long would it take 4 men to build the same house ?
8. If 12 men can build a house in 24 days, how long would it take 18 men to build the same house ?
9. A fort has enough food to feed 60 men for 15 days. How long would the food last if there were 100 men in the fort ?
10. A fort has enough food to feed 80 men for 24 days. How long would the food last if there were 60 men in the fort ?
11. A town under seige has enough food to feed 500 people for 30 days. How long would the food last if there were 300 people in the town?
12. A fort has enough food to feed 80 men for 12 days. How long would the food last if an extra 16 men arrived at the fort ?
13. A fort has enough food to feed 160 men for 6 days. How long would the food last if an extra 80 men arrived at the fort ?
14. A fort has enough food to feed 50 men for 10 days. How long would the food last if 30 men left the fort ?

Inverse Proportion - Answers

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|-----|---------|-----|---------|-----|---------|-----|---------|
| 1.  | 8 days  | 2.  | 8 days  | 3.  | 6 days  | 4.  | 2 days  |
| 5.  | 16 days | 6.  | 10 days | 7.  | 18 days | 8.  | 16 days |
| 9.  | 9 days  | 10. | 32 days | 11. | 50 days | 12. | 10 days |
| 13. | 4 days  | 14. | 25 days |     |         |     |         |