

Proportion Word Questions

1. If 10 calculators cost \$140, how much will 8 calculators cost?
2. If 5 bags of candies contain 90 candies in total, calculate how many candies seventeen bags will contain?
3. If 25 floppy disks cost \$5.50, calculate the cost of 16 floppy disks.
4. If 5 tickets for a play cost \$40, calculate the cost of 23 tickets.
5. If 10 litres of petrol cost £8.20, calculate the cost of 38 litres.
6. A baker uses 1800 grams of flour to make 3 loaves of bread. How much flour will he need use if he wants to make 25 loaves of bread?
7. Ben buys 21 football stickers for 84p (pence). Calculate the cost of 11 stickers.
8. To make 3 glasses of orange squash you need 600ml of water. Work out how much water you need to make 12 glasses of squash.
9. A 20 metre length of rope costs £14.40. Calculate the cost of 12m of rope.
10. Three identical busses can carry a total of 162 passengers. How many passengers can be carried on seven of these busses?
11. The total mass of 200 concrete blocks is 1460kg. Calculate the mass of 900 concrete blocks.
12. If two pencils cost \$1.50, how many pencils can you buy with \$9.00?
13. Jane ran 100 meters in 15 seconds. How long did she take to run 1 meter?
14. A car travels 125 miles in 3 hours. How far would it travel in 5 hours?
15. A scale drawing of a car uses 1 in. = 5 ft. Find the actual length of the car if it measures $3\frac{2}{5}$ in. in the scale drawing.
16. A man earns \$850 in a 5 day week. What is his pay for 3 days?
17. Nine milk bottles contain 4 and a half litres of milk between them, how much does five bottles hold?
18. A wire 11cm long has a mass of 210g. What is the mass of 7cm of this wire?
19. A ship has sufficient food to supply 500 passengers for 3 weeks. How long would the food last for 800 people?
20. If 80 machines can produce 4800 identical pens in 6 hours. At this rate...
 - a) how many pens would one machine produce in one hour?
 - b) how many pens would 25 machines produce in 8 hours?
21. A wheel turns through 90 revolutions per minute. How many degrees does it turn through in 1 second? (one revolution is equal to 360 degrees).
22. The height of an office building is 710 feet. Express this height to the nearest metre using $1\text{m} = 3.28\text{ feet}$
23. If I walked for forty minutes at 2.8 miles per hour, how long would it take me to walk a mile?
24. A scale on a map is 140 miles to the inch. What is the airline mileage between two cities that are $\frac{3}{4}$ inch apart on the map?
25. A recipe calls for $9\frac{1}{3}$ tablespoons of milk. This amount is equivalent to how many teaspoons of milk? (3 teaspoons = 1 tablespoon)
26. A treasure map is drawn to a scale of 2 inches = 5 miles. On the map, the distance between Point A and X-marks-the-spot is $9\frac{1}{2}$ inches. How many actual miles does this represent.
27. Saskatoon and Regina are distance 256 kilometers apart. On a map, the distance between the two cities is 2.5 inches. What is the scale of the map?

28. A machine fills 950 cartons in 3 hours. How many cartons can this same machine fill in 8 hours
29. Neil is making a diagram of the solar system. If he draws Neptune, which is 2795 million miles from the sun, 12 inches from the sun on his paper, how far away (to the nearest tenth of an inch) from the sun should he draw Mars, which is 142 million miles from the sun?
30. The ratio of men to women at a certain company is 5 to 7. How many male employees does the company have if there are 480 employees?
31. Linda can ride the 24 miles from the town to the farm in two hours on her bike. If she rides at the same rate, how long will it take her to ride her bike the additional 36 miles to her uncles farm?
32. Kathy uses 3 cups of sugar to make 64 chocolate chip cookies. She has five cups of sugar in her sugar canister. How many cookies can she make?
33. If I run four miles around the lake in 38 minutes. If I only have 30 minutes to run before work, how far can I expect to run?
34. Sandy can get 34 miles to the gallon in her new car. How many gallons of gas will it take her to drive 610 miles to visit her sister?
35. Steve can drive 245 miles to deliver a car in four hours. If he drives at the same speed, how long will it take him to drive the 1215 miles on the next trip?
36. Six pounds of grass seed covers 160 square feet. My lawn is 210 square feet. How much seed do I need?
37. A fudge recipe uses one and a half pounds of powdered sugar to make 56 pieces. How many pounds of sugar do we need to make 192 pieces of microwave fudge?
38. Brian scored 28 points in his first basketball game. If he continues at this rate how many points will he have in a season of 10 games?
39. There are 2.54 centimeters in one inch. How many centimeters in 15 inches?
40. 1 foot = 12 inches. How many feet in 42 inches?
41. If we pack 142 crates per day. At this rate how long will it take to finish a 1000 crate job?
42. Jane and Tom spend £5 between them on their lottery tickets each week. Jane puts in £1 and Tom puts in £4. They have agreed to share the winnings according to the amount they put in. One week they win £50 000. How much will they get each?
43. There are 144 square inches in 1 square foot. How many square inches are in 15 square feet?
44. A store charges \$8.45 per square yard to install new carpet. What would be the installation charge for a rectangular room whose area is 56.2 square yds?
45. The estimated cost of building an addition to an existing room is \$21.96 per square foot. What is the cost of an addition if its area is 410 square feet
46. The label on a large bottle of juice states 'dilute 1 part juice to 3 parts water'. How much water must be added to 2 litres of juice?
47. This recipe is for 4 fruit scones: 200g flour, 2 eggs, 100ml milk, 50g currants. How much flour would be needed to make 10 of these fruit scones?
48. A baker is making muffins. His recipe makes 12 muffins. 300g flour, 1 level teaspoon baking powder, 90g sugar, 250ml milk, 2 eggs, 4 tablespoons sunflower oil. How much flour does he need to make 68 muffins?