School786
AN ONLINE SCHOOL

Name: Due Date: Teacher: Parent Sign:

1. A car travels 180 miles in 3 hours. What is the unit rate in miles per hour?

2. Mia reads 120 pages in 4 hours. How many pages per hour does she read?

3. A printer produces 300 pages in 10 minutes. Find the unit rate in pages per minute.

4. A faucet fills 6 liters of water in 2 minutes. What is the flow rate in liters per minute?

5. Sam biked 45 miles in 3 hours. What is his speed in miles per hour?

6. A baker uses 9 cups of flour to make 3 batches of cookies. How many cups of flour per batch?

7. The school bus travels 60 miles in 1.5 hours. What is the speed in miles per hour?

8. A factory makes 540 toys in 6 hours. How many toys per hour does the factory make?

9. A typing class completes 75 words in 5 minutes. What is the typing rate in words per minute?

10. A gardener waters 12 plants in 30 minutes. What is the rate in plants per minute?

11. A train goes 240 miles in 4 hours. How many miles does it go in 1 hour?

12. A machine packages 96 cans in 8 minutes. How many cans per minute?

13. A truck carries 2,400 pounds of cargo in 6 trips. How many pounds per trip?

14. A runner covers 6 kilometers in 30 minutes. What is the unit rate in kilometers per minute and in kilometers per hour?

15. A faucet pours $\frac{3}{4}$ liter of water in $\frac{1}{5}$ minute. What is the flow rate in liters per minute?

16. A recipe uses $\frac{2}{3}$ cup of sugar to make 3 cookies. How much sugar per cookie?

17. A photographer takes 150 pictures in 2.5 hours. What is the rate in pictures per hour?

18. A gardener plants 28 trees in 7 days. What is the unit rate in trees per day?

19. A factory uses 15 gallons of paint to coat 5 trucks. How many gallons per truck?

20. A car traveled 350 miles using 14 gallons of gas. What is the miles per gallon?

21. A 6-pack of soda costs $4.50. What is the unit price per can?

22. A 2-pound bag of rice costs $3.60. What is the price per pound?

23. A box of 18 pencils costs $5.40. What is the cost per pencil?

24. A grocery store sells 500 g of cheese for $6. How much per 100 g?

25. A 24-ounce bottle of juice costs $3.60. What is the price per ounce?

26. A 3-kg bag of apples costs $9. What is the price per kilogram?

27. A 750 mL bottle of shampoo costs $7.50. What is the price per 100 mL?

28. A pack of 4 notebooks costs $6.00. What is the price per notebook?

29. A bulk candy bag weighing 2 pounds costs $8. What is the price per ounce? (1 pound = 16 ounces)

30. A 5-liter container of oil costs $20. What is the unit price per liter?

31. A cyclist travels at 12 miles in 0.5 hour. If she continues at the same rate, how many miles in 3 hours?

32. A runner completes one lap (400 m) in 1 minute 20 seconds. What is her speed in meters per second? (Convert 1 min 20 sec to seconds first)

33. If a car uses gas at a rate of 30 miles per gallon, how many gallons are needed for a 210-mile trip?

34. A pump drains a pool at 25 liters per minute. How long will it take to drain 2,500 liters?

35. A family consumes 18 gallons of water in 6 days. What is their daily water use, and how much in one month (30 days) at that rate?

36. A baker needs 2.5 cups of milk for 5 cakes. How much milk for 8 cakes at the same rate?

37. A worker assembles 15 toy cars in 2 hours. How many hours will it take to assemble 90 toy cars at that rate?

38. A car travels at 48 miles per hour. How far does it go in 2 hours and 30 minutes?

39. A printer can print 20 flyers in 4 minutes. How many printers working together would be needed to print 600 flyers in 10 minutes? (Assume each printer works at the same rate)

40. A faucet leaks at a rate of 10 drops per minute. If there are 20 drops in 1 milliliter, how many milliliters leak in 8 hours?

41. Store A: 12 apples for $6. Store B: 8 apples for $4. Which store offers the better unit price per apple?

42. Brand X cereal: 18 oz for $4.50. Brand Y: 24 oz for $6.00. Which is cheaper per ounce?

43. Two painters: Painter A paints 30 square meters in 3 hours. Painter B paints 48 square meters in 6 hours. Which painter is faster (square meters per hour)?

44. Bike rental company A charges $10 for 2 hours. Company B charges $15 for 3 hours. Which company has the lower price per hour?

45. A bus takes 50 minutes to travel 40 miles. Another bus takes 1 hour to travel 50 miles. Which bus is faster?

46. A delivery service charges $12 for the first 3 miles and $2 per additional mile. If a delivery is 7 miles, what is the average cost per mile?

47. Student A completes 5 math problems in 12 minutes. Student B completes 8 math problems in 20 minutes. Who works at a higher rate of problems per minute?

48. A grocery package: 2 boxes of cereal for $7. A single box in another store costs $4. Which deal is better and why?

49. Two pumps drain water from a tank: Pump 1 drains at 30 L/min, Pump 2 at 45 L/min. Working together, how long to drain 3,750 L?

50. A car's fuel efficiency is 36 miles per gallon. A competitor's car is 15 kilometers per liter. (1 mile ? 1.609 km; 1 gallon ? 3.785 L) Which car is more fuel efficient? (Compare both in miles per gallon or km per liter – you may convert to compare)