



# Math Worksheet for 7th Grade

## Rate problems with fractions

Name: \_\_\_\_\_

Due Date: \_\_\_\_\_

Teacher: \_\_\_\_\_

Parent Sign: \_\_\_\_\_

Questions:

1. A walker goes  $\frac{3}{4}$  mile per hour. How far in 2 hours?
2. A printer prints  $\frac{2}{3}$  page per minute. How many pages in 9 minutes?
3. A faucet fills  $\frac{1}{4}$  tank per hour. How long to fill 1 tank?
4. Pump A fills  $\frac{1}{3}$  tank per hour and Pump B fills  $\frac{1}{6}$  tank per hour. How long to fill one tank together?
5. A car travels  $\frac{5}{6}$  mile per minute. How far in 12 minutes?
6. A baker makes  $\frac{1}{2}$  cake per hour. How long to make 3 cakes?
7. A cyclist goes  $\frac{2}{5}$  mile per minute. How far in 15 minutes?
8. A worker paints  $\frac{3}{8}$  of a fence per hour. How long to paint the whole fence?
9. A faucet leaks  $\frac{1}{12}$  liter per minute. How much leaks in 30 minutes?
10. A machine produces  $\frac{7}{8}$  widget per hour. How many widgets in 16 hours?
11. A train travels at  $\frac{4}{5}$  miles per minute. How long to travel 10 miles?
12. A types  $\frac{1}{4}$  page per minute and B types  $\frac{1}{6}$  page per minute. How many minutes to type 5 pages together?
13. A faucet fills  $\frac{2}{5}$  tank per hour. How much is filled in 3 hours?
14. A swimmer swims  $\frac{3}{10}$  mile per minute. How far in 20 minutes?
15. A worker lays  $\frac{2}{3}$  of a path in 6 hours. What is the worker's rate per hour?
16. A car uses  $\frac{1}{8}$  gallon per mile. How many gallons for 32 miles?
17. A hose fills  $\frac{3}{7}$  of a pool per hour. How long to fill the pool?
18. A printer copies  $\frac{5}{6}$  page per minute. How long to copy 15 pages?
19. A runner runs  $\frac{7}{10}$  mile per minute. How far in 5 minutes?
20. A drain empties  $\frac{1}{9}$  tank per hour. How long to empty a full tank?
21. A paints  $\frac{1}{5}$  of a house per hour and B paints  $\frac{1}{10}$  per hour. How long to paint the house together?
22. A cyclist travels  $1\frac{1}{2}$  miles per hour. How long to go 6 miles?
23. A baker makes  $\frac{3}{4}$  pie per hour. How many hours to make 9 pies?
24. A faucet fills  $\frac{1}{2}$  tank in 3 hours. What is the rate per hour?
25. A printer's rate is  $2\frac{1}{2}$  pages per minute. How many pages in 8 minutes?
26. A runner's speed is  $\frac{4}{3}$  miles per minute. How far in 3 minutes?
27. A car uses  $\frac{3}{4}$  gallon per 10 miles. What is gallons per mile?
28. A tap fills  $\frac{1}{6}$  tank in 10 minutes. How long to fill one tank?
29. A machine makes  $\frac{3}{10}$  of a toy per minute. How many minutes to make 1 toy?
30. A cyclist goes  $\frac{5}{12}$  mile per minute. How far in 24 minutes?
31. A painter paints  $\frac{2}{7}$  of a wall in one hour. How long to paint the whole wall?



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32. A tap fills  $\frac{1}{3}$  liter per minute. How much in 9 minutes?
33. A truck carries  $\frac{7}{9}$  ton per trip. How many tons in 18 trips?
34. A jogger runs  $\frac{2}{5}$  mile in 1 minute. How long to run 1 mile?
35. Hose A fills  $\frac{1}{4}$  pool per hour and Hose B fills  $\frac{1}{3}$  pool per hour. How long to fill together?
36. A printer does  $\frac{4}{5}$  page per minute. How many minutes to print 8 pages?
37. A swimmer's speed is  $\frac{3}{2}$  meters per second. How far in 4 seconds?
38. A gardener plants  $\frac{2}{9}$  of the garden each hour. How many hours to finish?
39. A car goes  $1\frac{1}{4}$  miles per minute. How far in 8 minutes?
40. A machine fills  $\frac{2}{3}$  box per hour. How long to fill one box?
41. A cyclist travels  $\frac{3}{10}$  km per minute. How far in 50 minutes?
42. A tap fills  $\frac{5}{8}$  tank in 4 hours. How many hours to fill one tank?
43. A machine makes  $1\frac{2}{5}$  parts per hour. How many parts in 10 hours?
44. A swimmer completes  $\frac{2}{3}$  of a pool in 3 minutes. What is the fraction-of-pool speed per minute?
45. A baker uses  $\frac{1}{3}$  cup of sugar per cake. How many cups for 9 cakes?
46. A car goes  $\frac{2}{3}$  mile per minute. How long to travel 8 miles?
47. Worker A does  $\frac{1}{8}$  job per hour and Worker B does  $\frac{1}{12}$  per hour. How long to finish together?
48. A person types  $\frac{3}{5}$  pages per minute. How many minutes to type 9 pages?
49. A faucet fills  $\frac{7}{10}$  liter per minute. How much in  $2\frac{1}{2}$  minutes?
50. A car's fuel efficiency is  $\frac{3}{5}$  miles per gallon. How many gallons needed for 30 miles?