MULTIPLYING AND DIVIDING FRACTIONS

Richard runs at a rate of 1 lap every $2\frac{3}{4}$ minutes. How long will it take him to run the following distances?

1. 4 laps _____ ($4 \times 2\frac{3}{4}$)

2. 5 laps _____

3. 7 laps _____

4. 14 laps _____

5. $2\frac{1}{2}$ laps _____

6. $6\frac{1}{2}$ laps _____

7. $8\frac{1}{4}$ laps _____

8. $9\frac{3}{4}$ laps _____

How many laps can Richard run in the following time periods?

9. 11 minutes _____ ($11 \div 2\frac{3}{4}$)

10. $5\frac{1}{2}$ minutes _____

11. $19\frac{1}{4}$ minutes _____

12. 7 minutes _____

Rachel skates at a rate of 1 lap every $2\frac{1}{2}$ minutes. How long will it take her to skate the following distances?

13. 6 laps _____

14. 14 laps _____

15. 9 laps _____

16. 7 laps _____

17. $2\frac{1}{2}$ laps _____

18. $6\frac{1}{2}$ laps _____

19. $3\frac{1}{4}$ laps _____

20. $7\frac{3}{4}$ laps _____

How many laps can Rachel skate in the following time periods?

21. $7\frac{1}{2}$ minutes _____

22. 10 minutes _____

23. $17\frac{1}{2}$ minutes _____

24. 26 minutes _____

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FINDING COMMON DENOMINATORS

EXAMPLE **Write $\frac{2}{5}$ and $\frac{3}{4}$ with a common denominator.**
First, list the multiples of 5 until you find one that is a multiple of 4, also 5,10,15, 20.
Then find the fractions equal to $\frac{2}{5}$ and $\frac{3}{4}$ that have 20 for a denominator.
$\frac{2}{5} = \frac{8}{20}$ and $\frac{3}{4} = \frac{15}{20}$

Write each pair of fractions with a common denominator.

1. $\frac{1}{4}$ and $\frac{2}{3}$ _____
2. $\frac{1}{5}$ and $\frac{2}{3}$ _____
3. $\frac{1}{5}$ and $\frac{3}{8}$ _____
4. $\frac{3}{8}$ and $\frac{3}{4}$ _____
5. $\frac{3}{8}$ and $\frac{13}{16}$ _____
6. $\frac{2}{3}$ and $\frac{1}{6}$ _____
7. $\frac{1}{2}$ and $\frac{2}{3}$ _____
8. $\frac{1}{4}$ and $\frac{5}{6}$ _____
9. $\frac{5}{6}$ and $\frac{5}{12}$ _____
10. $\frac{1}{3}$ and $\frac{2}{5}$ _____
11. $\frac{1}{6}$ and $\frac{2}{9}$ _____
12. $\frac{4}{5}$ and $\frac{1}{2}$ _____
13. $\frac{1}{4}$ and $\frac{3}{5}$ _____
14. $\frac{1}{6}$ and $\frac{3}{8}$ _____
15. $\frac{1}{3}$ and $\frac{7}{10}$ _____

Write these fractions with a common denominator.

16. $\frac{2}{3}$, $\frac{1}{6}$, and $\frac{1}{2}$ _____
17. $\frac{1}{6}$, $\frac{2}{3}$, and $\frac{5}{12}$ _____
18. $\frac{1}{3}$, $\frac{3}{4}$, and $\frac{1}{6}$ _____
19. $\frac{4}{5}$, $\frac{3}{10}$, and $\frac{2}{3}$ _____

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