75. Using Reciprocals in Calculations

Practice Questions

1. What is the reciprocal of 5?

2. Find the reciprocal of $\frac{1}{3}$.

3. What is the reciprocal of $\frac{7}{8}$?

4. Multiply 4 by its reciprocal. What is the result?

5. A number multiplied by its reciprocal always equals ___.

6. Find the reciprocal of 0.2.

7. Solve: $3 \div \frac{1}{4}$.

8. What is the reciprocal of 2.5?

9. If $x = \frac{1}{9}$, what is $\frac{1}{x}$?

10. Find the reciprocal of $\frac{11}{2}$.

Scenario Questions

1. A recipe calls for $\frac{1}{4}$ cup of sugar. How many times must you use the   Recipe   to get 1 full cup?

2. A car travels 60 miles per hour. Write the reciprocal to express how long it takes to travel 1 mile.

3. A shopkeeper buys 5 pens for £1. What is the reciprocal cost per pen?

4. A train journey takes $\frac{1}{3}$ hour to reach the next station. Find how many journeys can be made in an hour.

5. The probability of raining today is $\frac{2}{5}$. What is the reciprocal probability?

6. If a person can complete a task in 0.5 hours, find the rate per hour using reciprocals.

7. A runner completes a 10 km race in $\frac{1}{2}$ hour. How many races could they complete in 1 hour?

8. A worker is paid £20 for $\frac{1}{5}$ of a job. What is the total payment for the full job?

9. A student takes $\frac{3}{4}$ hour to do their homework. How many complete sets of homework can they do in 3 hours?

10. A machine prints $\frac{1}{6}$ of a page per second. How many pages does it print in one second if we use reciprocals?

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Practice Questions

1. $\frac{1}{5}$

2. 3

3. $\frac{8}{7}$

4. 1

5. 1

6. 5

7. 12

8. $\frac{2}{5}$

9. 9

10. $\frac{2}{11}$

Scenario Questions

1. 4 times

2. $\frac{1}{60}$ hour per mile

3. £0.20 per pen

4. 3 journeys

5. $\frac{5}{2}$

6. 2 tasks per hour

7. 2 races

8. £100

9. 4 sets

10. 6 pages