Practice Questions:

1. Work out the reciprocal of 2.

2. Work out the reciprocal of 5.

3. Work out the reciprocal of 10.

4. Work out the reciprocal of $\frac{\pi}{3}$

5. Work out the reciprocal of $\frac{2}{7}$

Practice Questions:

6. Work out the reciprocal of -4.

7. Work out the reciprocal of $\frac{-1}{5}$

8. Work out the reciprocal of 0.25.

9. Work out the reciprocal of 1.5.

10. Work out the reciprocal of 6. Then multiply 6 by its reciprocal and write down the result.

Scenario Questions: Give answers up to 3 decimal places

- 1. A car completes its journey in 2 hours. Work out the reciprocal of 2 to calculate how much of the journey is completed in 1 hour.
- 2. A machine produces 5 items each minute. Work out the reciprocal of 5 to calculate what fraction of a minute it takes to make 1 item.
- 3. Over a 1 hour period 10 buses arrive. Work out the reciprocal of 10 to calculate what fraction of an hour it takes for 1 bus to arrive.
- 4. A student completes half a project in 1 day. Work out the reciprocal of 1/2 to calculate how many days it would take to complete a full project.
- 5. A recipe uses 3/4 of a litre of milk per serving. Work out the reciprocal of 3/4 to calculate how many servings can be made from 1 litre of milk.

Scenario Questions:

- 6. A lift goes down 4 floors every second. Work out the reciprocal of 4 to calculate what fraction of a second it takes to go down 1 floor.
- 7. A runner covers 2/5 of a kilometre in 1 minute. Work out the reciprocal of 2/5 to calculate how many minutes it would take to run 1 kilometre.
- 8. A train takes 0.25 hours to travel between two stations. Work out the reciprocal of 0.25 to calculate how many trips the train could make in 1 hour.
- 9. A worker finishes 1.5 jobs in 1 hour. Work out the reciprocal of 1.5 to calculate how many hours it takes to complete 1 job.
- 10. A tank fills at a rate of 7/3 litres per minute. Work out the reciprocal of 7/3 to calculate how many minutes it takes to fill 1 litre.

ANSWERS

Topic 77. Reciprocals

Practice Questions:

1. ½ 6. -1/42.1/5 7. -5

3. 1/10 8.4 4. $3/\pi$ 9. 2/3

5.7/2 10.1

Scenario Questions:

1. 0.500 6. 0.250 sec 7. 2.500 min 2. 0.200 min

3. 0.100 hr 8. 4 trips

9. 0.667 hr 4. 2 days

5. 1.333 servings 10. 0.429 min

Verify Answers