Multiplying Fractions

1. Solve the following. Simplify your answers if necessary.

a. $\frac{2}{3} \times \frac{1}{5}$ b. $\frac{1}{7} \times \frac{3}{8}$ c. $\frac{3}{5} \times \frac{2}{3}$ d. $\frac{3}{7} \times \frac{5}{6}$ e. $\frac{2}{11} \times \frac{1}{4}$

f. $\frac{2}{3} \times \frac{8}{9}$ g. $\frac{4}{7} \times \frac{3}{5}$ h. $\frac{4}{5} \times \frac{2}{7}$ i. $\frac{1}{11} \times \frac{5}{9}$ j. $\frac{2}{5} \times \frac{10}{11}$

2. Mary says that three-fifths of one quarter is the same as three-quarters of one fifth. Is she correct?

3. Solve the following. Simplify your answers if necessary.

a. $6 \times \frac{2}{5}$ b. $3 \times \frac{4}{7}$ c. $8 \times \frac{5}{6}$ d. $\frac{2}{3}$ of $\frac{3}{4}$ e. $\frac{3}{8}$ of 6

4. A car travels at an average speed of 30m/h. How far does it travel in $2\frac{1}{4}$ hours?

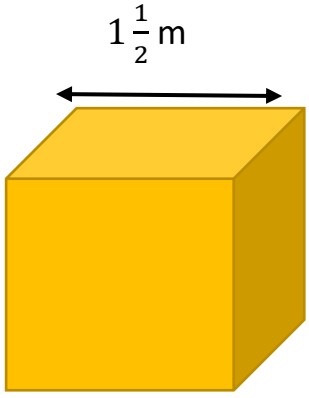
5. Solve the following. Simplify your answers if necessary.

a. $2\frac{1}{4} \times 3\frac{1}{3}$ b. $2\frac{3}{5} \times 1\frac{2}{3}$ c. $3\frac{3}{4} \times 1\frac{3}{5}$ d. $3\frac{1}{3} \times 1\frac{2}{5}$ e. $4\frac{1}{6} \times 2\frac{4}{5}$

6. David's bedroom floor measures $3\frac{1}{4}$ metres by $3\frac{1}{2}$ metres. What is the area of the floor?

7. Find three different pairs of fractions which multiply to $\frac{25}{32}$.

8. Find the volume of this cube.



Answers below…

1. Solve the following. Simplify your answers if necessary.

a. $\frac{2}{15}$ b. $\frac{3}{56}$ c. $\frac{2}{5}$ d. $\frac{5}{14}$ e. $\frac{1}{22}$

f. $\frac{16}{27}$ g. $\frac{12}{35}$ h. $\frac{8}{35}$ i. $\frac{5}{99}$ j. $\frac{4}{11}$

2. Yes, $\frac{3}{20}$

3. Solve the following. Simplify your answers if necessary.

a. $2\frac{2}{5}$ b. $1\frac{5}{7}$ c. $6\frac{2}{3}$ d. $\frac{1}{2}$ e. $2\frac{1}{2}$

4. 87 ½ m

5. Solve the following. Simplify your answers if necessary.

a. $7\frac{1}{2}$ b. $4\frac{1}{3}$ c. $3\frac{3}{4} \times 1\frac{3}{5}$ d. 6 e. $11\frac{2}{3}$

6. $11\frac{3}{8}$ metres

7. Pupil answers

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