

Build Tasks – Answers



Flip the second fraction (the divisor) to its reciprocal, then multiply.

1. $\frac{3}{4} \div \frac{2}{5}$.

Solution

$$\frac{3}{4} \div \frac{2}{5} = \frac{3}{4} \times \frac{5}{2} = \frac{15}{8} = 1\frac{7}{8}$$

2. $\frac{5}{6} \div \frac{1}{3}$.

Solution

$$\frac{5}{6} \div \frac{1}{3} = \frac{5}{6} \times \frac{3}{1} = \frac{15}{6} = \frac{5}{2} = 2\frac{1}{2}$$

3. $6 \div \frac{3}{4}$.

Solution

$$6 \div \frac{3}{4} = 6 \times \frac{4}{3} = \frac{24}{3} = 8$$

4. $\frac{3}{5} \div 6$.

Solution

$$\frac{3}{5} \div 6 = \frac{3}{5} \times \frac{1}{6} = \frac{3}{30} = \frac{1}{10}$$

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Check a claimed quotient by multiplying it back with the divisor, and reason about why dividing by a fraction less than 1 makes a number larger.

5. Fill in the blank: $\frac{2}{3} \div \frac{\square}{5} = \frac{10}{9}$.

Solution

$$\square = 3: \frac{2}{3} \div \frac{3}{5} = \frac{2}{3} \times \frac{5}{3} = \frac{10}{9}$$

7. Which is greater: $\frac{3}{4} \div \frac{1}{2}$ or $\frac{3}{4} \times \frac{1}{2}$?

Solution

$$\frac{3}{4} \div \frac{1}{2} = \frac{3}{2}; \frac{3}{4} \times \frac{1}{2} = \frac{3}{8}. \text{ Division is greater.}$$

6. Is $\frac{3}{4} \div \frac{1}{2} = \frac{3}{8}$ correct?

Solution

$$\text{No: } \frac{3}{4} \div \frac{1}{2} = \frac{3}{4} \times 2 = \frac{6}{4} = \frac{3}{2}, \text{ not } \frac{3}{8} \text{ (that is } \frac{3}{4} \times \frac{1}{2} \text{).}$$

8. Explain in one short sentence why dividing by $\frac{1}{2}$ makes a positive number larger.

Solution

Dividing by a fraction less than 1 equals multiplying by a number greater than 1.