

Varied Fluency

Step 12: Divide Fractions by Integers 1

National Curriculum Objectives:

Mathematics Year 6: (6F2) [Use common factors to simplify fractions; use common multiples to express fractions in the same denomination](#)

Mathematics Year 6: (6F5b) [Divide proper fractions by whole numbers \[for example, \$\frac{1}{3} \div 2 = \frac{1}{6}\$ \]](#)

Differentiation:

Developing Questions to support dividing fractions by whole numbers where the numerator is the first or second multiple of the divisor.

Expected Questions to support dividing fractions by whole numbers where the numerator is up to the fifth multiple of the divisor. Some fractions are represented as improper fractions.

Greater Depth Questions to support dividing fractions by whole numbers where the numerator is up to the tenth multiple of the divisor. Fractions are represented as either mixed numbers or improper fractions.

More [Year 6 Fractions](#) resources.

Did you like this resource? Don't forget to [review](#) it on our website.

Divide Fractions by Integers 1

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1a. Match the calculation to the correct answer represented in the diagram.

A. $\frac{4}{5} \div 2$ i 

B. $\frac{8}{9} \div 4$ ii 

C. $\frac{6}{10} \div 3$ iii 



VF

1b. Match the calculation to the correct answer represented in the diagram.

A. $\frac{2}{5} \div 2$ i 

B. $\frac{6}{7} \div 3$ ii 

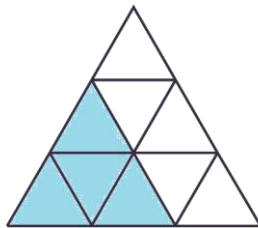
C. $\frac{12}{10} \div 6$ iii 



VF

2a. True or false?

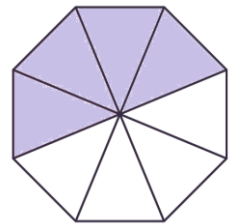
$$\frac{4}{9} \div 2 = \frac{2}{9}$$



VF

2b. True or false?

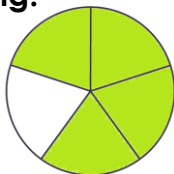
$$\frac{4}{8} \div 2 = \frac{2}{4}$$



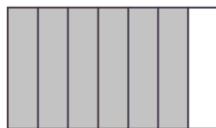
VF

3a. Calculate the following.

A. $\frac{4}{5} \div 2 =$



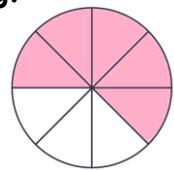
B. $\frac{6}{7} \div 3 =$



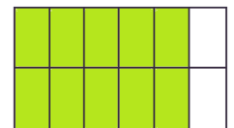
VF

3b. Calculate the following.

A. $\frac{5}{8} \div 5 =$



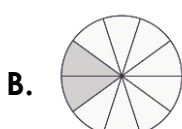
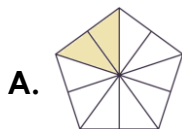
B. $\frac{10}{12} \div 5 =$



VF

4a. Solve the calculation to find the odd one out.

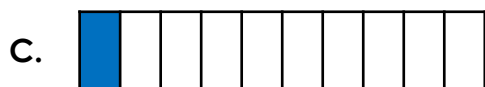
$$\frac{8}{10} \div 4$$



VF

4b. Solve the calculation to find the odd one out.

$$\frac{5}{10} \div 5$$



VF

Divide Fractions by Integers 1

Divide Fractions by Integers 1

5a. Match the calculation to the correct answer represented in the diagram.

A. $\frac{8}{12} \div 4$ i 

B. $\frac{8}{10} \div 2$ ii 

C. $\frac{10}{15} \div 2$ iii 



VF

5b. Match the calculation to the correct answer represented in the diagram.

A. $\frac{8}{9} \div 2$ i 

B. $\frac{8}{10} \div 4$ ii 

C. $\frac{12}{15} \div 3$ iii 



VF

6a. True or false?

$$\frac{18}{9} \div 3 = \frac{2}{3}$$



VF


6b. True or false?


$$\frac{15}{12} \div 3 = \frac{3}{12}$$



VF

7a. Calculate the following.


A. $\frac{4}{9} \div 4 =$ 


B. $\frac{12}{14} \div 4 =$ 



VF

7b. Calculate the following.

A. $\frac{14}{15} \div 7 =$ 

B. $\frac{4}{5} \div 4 =$ 



VF

8a. Solve the calculation to find the odd one out.

$$\frac{3}{7} \div 3$$

A. $\frac{1}{7}$



VF

8b. Solve the calculation to find the odd one out.

$$\frac{9}{11} \div 3$$

A. $\frac{3}{11}$



VF

Divide Fractions by Integers 1

Divide Fractions by Integers 1

9a. Match the calculation to the correct answer represented in the diagram.

A. $2\frac{6}{9} \div 4$

i



B. $2\frac{4}{5} \div 2$

ii



C. $2\frac{8}{12} \div 8$

iii



VF

9b. Match the calculation to the correct answer represented in the diagram.

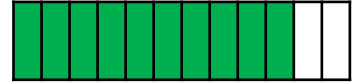
A. $3\frac{4}{12} \div 4$

i



B. $3\frac{6}{12} \div 6$

ii



C. $3\frac{5}{9} \div 8$

iii



VF

10a. True or false?

$$2\frac{6}{9} \div 3 = \frac{7}{9}$$



VF

10b. True or false?

$$5\frac{1}{3} \div 4 = \frac{4}{3}$$



VF

11a. Calculate the following.

A. $\frac{21}{9} \div 7 =$

B. $\frac{24}{4} \div 3 =$



VF

11b. Calculate the following.

A. $\frac{24}{6} \div 6 =$

B. $\frac{32}{5} \div 8 =$



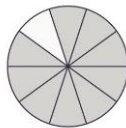
VF

12a. Solve the calculation to find the odd one out.

$$\frac{27}{10} \div 3$$

A. $\frac{9}{10}$

B.



C.



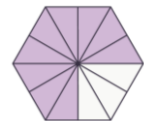
VF

12b. Solve the calculation to find the odd one out.

$$\frac{36}{12} \div 4$$

A. $\frac{9}{3}$

B.



C.



VF

Varied Fluency
Divide Fractions by Integers 1

Developing

- 1a. **A - ii; B - iii; C - i**
- 2a. **True**
- 3a. **A - $\frac{2}{5}$; B - $\frac{2}{7}$**
- 4a. **The answer is $\frac{2}{10}$. C is the odd one out.**

Expected

- 5a. **A - iii; B - i; C - ii**
- 6a. **True**
- 7a. **A - $\frac{1}{9}$; B - $\frac{3}{14}$**
- 8a. **The answer is $\frac{1}{7}$. B is the odd one out.**

Greater Depth

- 9a. **A - iii; B - i; C - ii**
- 10a. **False. The answer is $\frac{8}{9}$**
- 11a. **A - $\frac{3}{9}$ or $\frac{1}{3}$; B - $\frac{8}{4}$ or 2**
- 12a. **The answer is $\frac{9}{10}$. C is the odd one out.**

Varied Fluency
Divide Fractions by Integers 1

Developing

- 1b. **A - i; B - ii; C - iii**
- 2b. **False. The answer is $\frac{2}{8}$ or $\frac{1}{4}$**
- 3b. **A - $\frac{1}{8}$; B - $\frac{2}{12}$ or $\frac{1}{6}$**
- 4b. **The answer is $\frac{1}{10}$. B is the odd one out.**

Expected

- 5b. **A - iii; B - i; C - ii**
- 6b. **False. The answer is $\frac{5}{12}$**
- 7b. **A - $\frac{2}{15}$; B - $\frac{1}{5}$**
- 8b. **The answer is $\frac{3}{11}$. C is the odd one out.**

Greater Depth

- 9b. **A - ii; B - iii; C - i**
- 10b. **True**
- 11b. **A - $\frac{4}{6}$ or $\frac{2}{3}$; B - $\frac{4}{5}$**
- 12b. **The answer is $\frac{9}{12}$. A is the odd one out.**