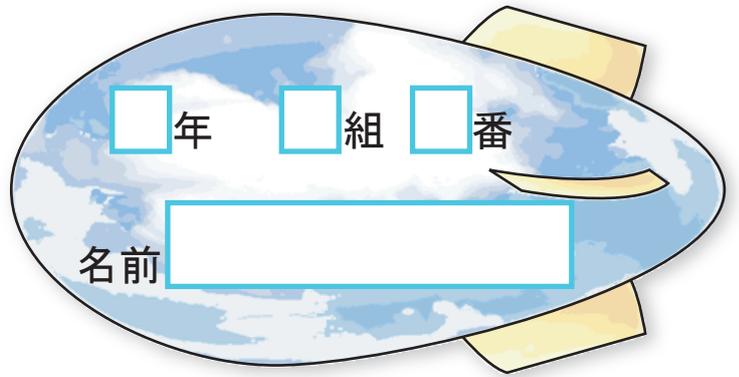




分数のかけ算

分数 × 分数 ①



1 計算をしましょう。

$$\textcircled{1} \frac{3}{5} \times \frac{1}{2} = \frac{3 \times \boxed{1}}{5 \times \boxed{2}} = \frac{\boxed{3}}{\boxed{10}}$$

$$\textcircled{2} \frac{2}{5} \times \frac{3}{7} = \frac{2 \times 3}{5 \times 7} = \frac{6}{35}$$

$$\textcircled{3} \frac{4}{3} \times \frac{2}{3} = \frac{4 \times 2}{3 \times 3} = \frac{8}{9}$$

$$\textcircled{4} \frac{5}{4} \times \frac{3}{2} = \frac{5 \times 3}{4 \times 2} = \frac{15}{8} \left(1 \frac{7}{8}\right)$$

$$\textcircled{5} \frac{5}{6} \times \frac{7}{4} = \frac{5 \times 7}{6 \times 4} = \frac{35}{24} \left(1 \frac{11}{24}\right)$$

$$\textcircled{6} \frac{5}{9} \times \frac{2}{3} = \frac{5 \times 2}{9 \times 3} = \frac{10}{27}$$

$$\textcircled{7} \frac{3}{7} \times \frac{2}{5} = \frac{3 \times 2}{7 \times 5} = \frac{6}{35}$$

$$\textcircled{8} \frac{3}{10} \times \frac{3}{4} = \frac{3 \times 3}{10 \times 4} = \frac{9}{40}$$

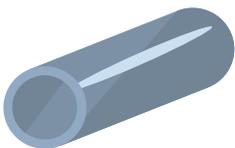


分母どうし分子どうしをかけたね。

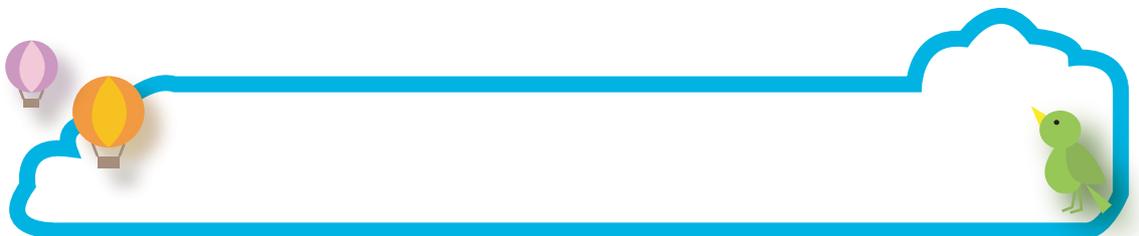
$$\frac{\bigcirc}{\square} \times \frac{\triangle}{\pentagon} = \frac{\bigcirc \times \triangle}{\square \times \pentagon}$$

2 1mの重さが  $\frac{7}{10}$  kgのパイプがあります。このパイプ  $\frac{3}{4}$  mの重さは何kgですか。

式  $\frac{7}{10} \times \frac{3}{4} = \frac{7 \times 3}{10 \times 4} = \frac{21}{40}$



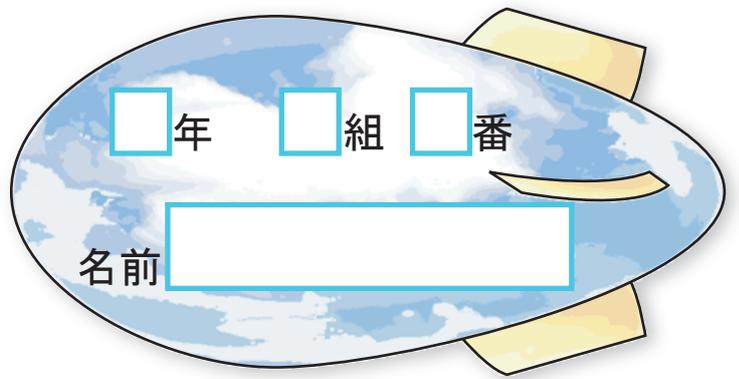
答え (  $\frac{21}{40}$  kg )





分数のかけ算

分数 × 分数 ②



1 計算をしましょう。

$$\textcircled{1} \frac{2}{3} \times \frac{6}{10} = \frac{\overset{\boxed{1}}{\cancel{2}} \times \overset{\boxed{2}}{\cancel{6}}}{\cancel{3} \times \overset{\boxed{5}}{\cancel{10}}} = \frac{\boxed{2}}{\boxed{5}}$$

$$\textcircled{2} \frac{3}{10} \times \frac{4}{9} = \frac{\overset{1}{\cancel{3}} \times \overset{2}{\cancel{4}}}{\overset{5}{\cancel{10}} \times \overset{3}{\cancel{9}}} = \frac{2}{15}$$

$$\textcircled{3} \frac{10}{3} \times \frac{6}{5} = \frac{\overset{2}{\cancel{10}} \times \overset{2}{\cancel{6}}}{\cancel{3} \times \overset{1}{\cancel{5}}} = 4$$

$$\textcircled{4} 2\frac{2}{5} \times \frac{10}{7} = \frac{\overset{1}{\cancel{2}} \times \overset{2}{\cancel{10}}}{\overset{1}{\cancel{5}} \times \overset{7}{\cancel{7}}} = \frac{24}{7} \left(3\frac{3}{7}\right)$$

$$\textcircled{5} \frac{7}{15} \times \frac{5}{21} = \frac{\overset{1}{\cancel{7}} \times \overset{1}{\cancel{5}}}{\overset{3}{\cancel{15}} \times \overset{3}{\cancel{21}}} = \frac{1}{9}$$

$$\textcircled{6} \frac{7}{12} \times \frac{3}{14} = \frac{\overset{1}{\cancel{7}} \times \overset{1}{\cancel{3}}}{\overset{4}{\cancel{12}} \times \overset{2}{\cancel{14}}} = \frac{1}{8}$$

$$\textcircled{7} 4 \times 1\frac{5}{8} = \frac{\overset{1}{\cancel{4}} \times \overset{13}{\cancel{13}}}{\overset{1}{\cancel{1}} \times \overset{2}{\cancel{8}}} = \frac{13}{2} \left(6\frac{1}{2}\right)$$

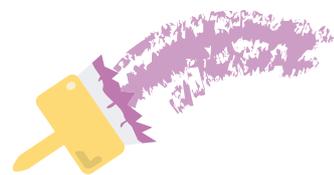
$$\textcircled{8} \frac{3}{10} \times 5 = \frac{\overset{3}{\cancel{3}} \times \overset{1}{\cancel{5}}}{\overset{2}{\cancel{10}} \times \overset{1}{\cancel{1}}} = \frac{3}{2} \left(1\frac{1}{2}\right)$$



約分できるときは、  
約分してから計算します。

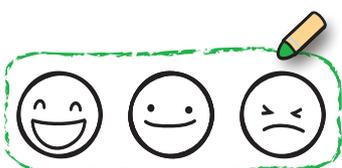
2 1dL で  $\frac{7}{10}$  m<sup>2</sup> の板をぬれるペンキがあります。

このペンキ  $\frac{4}{5}$  dL では、板を何 m<sup>2</sup> ぬれますか。



$$\text{式} \quad \frac{7}{10} \times \frac{4}{5} = \frac{\overset{7}{\cancel{7}} \times \overset{2}{\cancel{4}}}{\overset{5}{\cancel{10}} \times \overset{1}{\cancel{5}}} = \frac{14}{25}$$

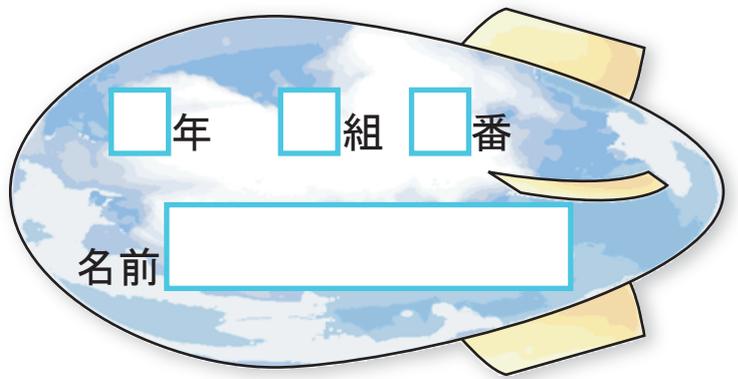
答え (  $\frac{14}{25}$  m<sup>2</sup> )



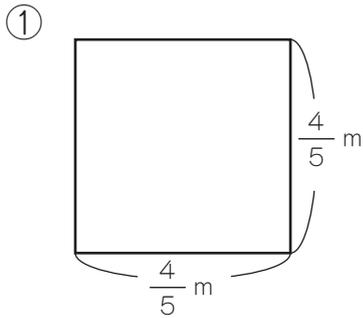


分数のかけ算

力をつけよう①

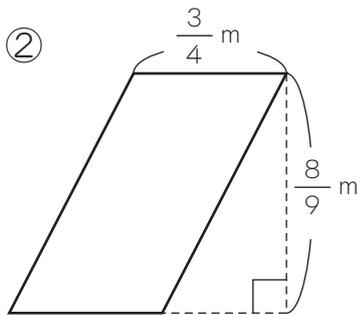


1 次の図形の面積を求めましょう。



式  $\frac{4}{5} \times \frac{4}{5} = \frac{16}{25}$

答え (  $\frac{16}{25} \text{ m}^2$  )



式  $\frac{3}{4} \times \frac{8}{9} = \frac{1\cancel{3} \times 8}{1\cancel{4} \times 9\cancel{3}} = \frac{2}{3}$

答え (  $\frac{2}{3} \text{ m}^2$  )

2 工夫して計算しましょう。

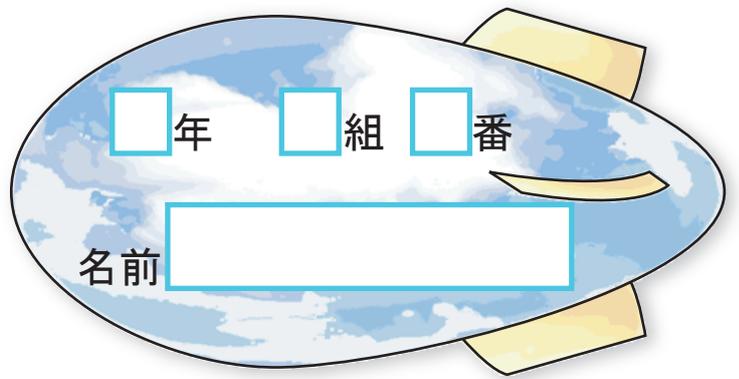
①  $\left(\frac{2}{3} + \frac{1}{4}\right) \times 24 = \frac{2}{\cancel{3}_1} \times \frac{8}{\cancel{24}_1} + \frac{1}{\cancel{4}_1} \times \frac{6}{\cancel{24}_1} = 16 + 6 = 22$

②  $\frac{2}{3} \times 5 + \frac{2}{3} \times 4 = (5+4) \times \frac{2}{3} = \frac{3}{\cancel{3}_1} \times \frac{2}{\cancel{3}_1} = 6$



$(\bigcirc + \triangle) \times \square = \bigcirc \times \square + \triangle \times \square$   
にあてはめて考えよう。





1 計算をしましょう。

$$\textcircled{1} \frac{2}{3} \times \frac{2}{5} = \frac{2 \times 2}{3 \times 5} = \frac{4}{15}$$

$$\textcircled{2} 4 \times \frac{5}{12} = \frac{4 \times 5}{1 \times 12} = \frac{20}{12} = \frac{5}{3} \left(1\frac{2}{3}\right)$$

$$\textcircled{3} \frac{3}{7} \times 2 = \frac{3 \times 2}{7 \times 1} = \frac{6}{7}$$

$$\textcircled{4} \frac{3}{5} \times 1\frac{6}{7} = \frac{3 \times 13}{5 \times 7} = \frac{39}{35} \left(1\frac{4}{35}\right)$$

$$\textcircled{5} \frac{2}{9} \times \frac{9}{2} = \frac{2 \times 9}{9 \times 2} = 1$$

$$\textcircled{6} \frac{3}{10} \times \frac{5}{9} = \frac{3 \times 5}{2 \times 10} = \frac{15}{20} = \frac{3}{4}$$

$$\textcircled{7} \frac{7}{10} \times 5 = \frac{7 \times 5}{2 \times 10} = \frac{35}{2} = 17\frac{1}{2}$$

$$\textcircled{8} \frac{2}{3} \times \frac{3}{4} \times \frac{7}{6} = \frac{2 \times 3 \times 7}{3 \times 4 \times 6} = \frac{14}{24} = \frac{7}{12}$$

2 1辺が  $\frac{3}{4}$  mの正方形の面積は何  $\text{m}^2$ ですか。

式  $\frac{3}{4} \times \frac{3}{4} = \frac{3 \times 3}{4 \times 4} = \frac{9}{16}$

答え (  $\frac{9}{16} \text{m}^2$  )

3 1Lの重さが  $\frac{4}{5}$  kgの油があります。この油  $\frac{3}{4}$  Lの重さは何 kgですか。

式  $\frac{4}{5} \times \frac{3}{4} = \frac{4 \times 3}{5 \times 4} = \frac{3}{5}$

答え (  $\frac{3}{5} \text{kg}$  )

