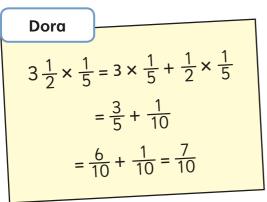
Multiply and divide improper and mixed fractions



Dexter works out  $\left(2\frac{1}{2}\right)^2$ 

$$2\frac{1}{2} \times 2\frac{1}{2} = \frac{5}{2} \times \frac{5}{2} = \frac{25}{4} = 6\frac{1}{4}$$

Dora and Teddy are working out  $3\frac{1}{2} \times \frac{1}{5}$ 



**Teddy**  

$$3\frac{1}{2} \times \frac{1}{5} = \frac{7}{2} \times \frac{1}{5}$$
  
 $= \frac{7}{10}$ 

16 2

84

Whose method do you prefer? Talk about it with a partner.

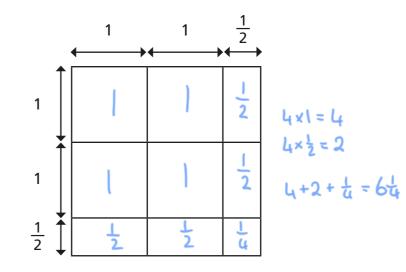


Complete the calculations. Show all your workings.

a) 
$$2\frac{2}{3} \times \frac{1}{3} = \boxed{\frac{8}{9}}$$
  
b)  $3\frac{1}{6} \times 2 = \boxed{6\frac{1}{3}}$   
e)  $3 \times 2\frac{3}{4} =$ 

c) 
$$5 \times 1\frac{3}{10} = 6\frac{1}{2}$$
 f)  $2 \times 1\frac{3}{5} \times 3 = 9\frac{3}{5}$ 

Use the diagram to show that Dexter's answer is correct.



Work out these multiplications.

$$2\frac{2}{3} \times 2\frac{1}{3} = 6\frac{2}{9}$$
 c)  $\frac{9}{10} \times 3\frac{1}{4} = 2\frac{37}{40}$ 

**b)** 
$$3\frac{5}{6} \times 2\frac{1}{2} = \boxed{\begin{array}{c} \begin{array}{c} \frac{7}{12} \\ 12 \end{array}}$$

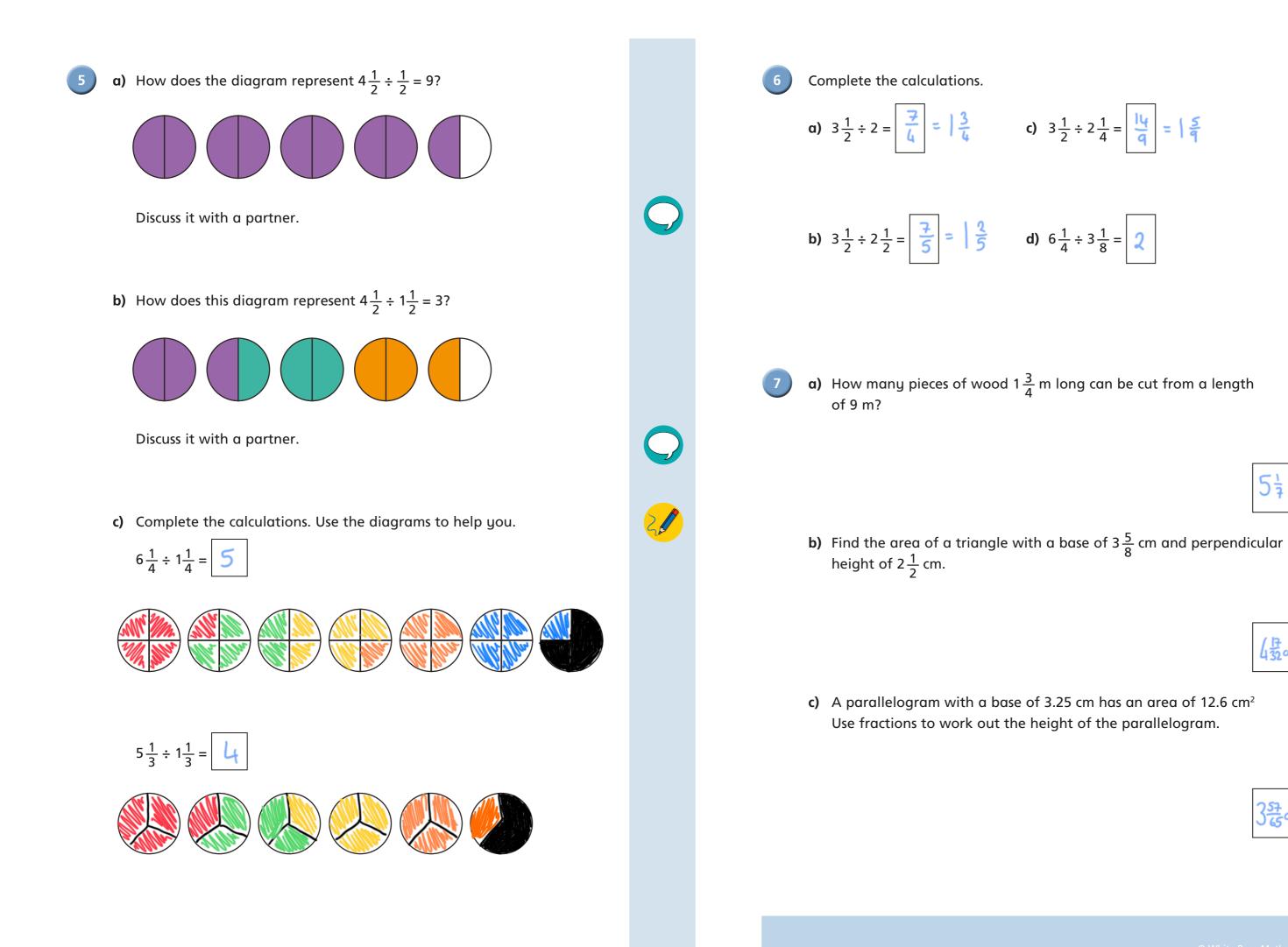
a)

 $\bigcirc$ 





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$$3\frac{1}{2} \div 2\frac{1}{4} = \boxed{\frac{\mathbf{l}_{4}}{\mathbf{q}}} = \sqrt{\frac{5}{\mathbf{q}}}$$

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







