

21.01.21

Fractions as division

- 3 a) Amelia has 3 m of ribbon. She cuts it into 8 equal lengths.

How long is each length?



- b) Ebo has 4 m of ribbon. He cuts it into 8 equal lengths.

How long is each length?



- 4 Emma says, 'This shows that $4 \div 6 = \frac{4}{24}$.'



Explain her mistake.

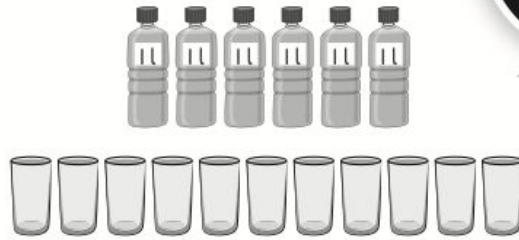
- 5 Match each division with the correct fraction.



6 a) 5 litres fill 6 glasses.



6 litres fill 9 glasses.



Which glasses are bigger? Explain your answer fully.



b) 8 litres fill 20 red watering cans. 12 litres fill 30 blue watering cans. Which watering cans are larger?



4 $96 \div 8 = 12$

Use this division fact to help complete these division statements.

a) $97 \div 8 = 12$ remainder = $12 \frac{\text{input}}{8}$

d) $102 \div 8 = \text{input} \frac{\text{input}}{\text{input}}$

b) $98 \div 8 = 12 \frac{\text{input}}{8} = 12 \frac{\text{input}}{4}$

e) $\div 8 = 24 \frac{1}{8}$

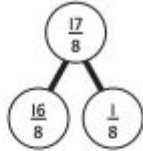
c) $100 \div 8 = \text{input} \frac{\text{input}}{\text{input}}$

5 Complete the table.

Division with remainder	Mixed number	Improper fraction
$6 \div 4 = 1$ remainder 2	$1 \frac{2}{4}$ or $1 \frac{1}{\text{input}}$	$\frac{6}{4}$ or $\frac{3}{\text{input}}$
$18 \div 4 = \text{input}$ remainder <input type="text"/>		
		$\frac{22}{5}$
	$5 \frac{1}{5}$	
		$\frac{58}{10}$ or $\frac{\text{input}}{5}$

6 Andy has a method for dividing 17 by 8.

$$\frac{16}{8} = \frac{8}{8} + \frac{8}{8}$$

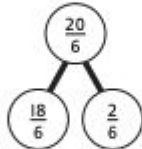


I will solve $17 \div 8$ as an improper fraction.

$$17 \div 8 = \frac{17}{8} = \frac{16}{8} + \frac{1}{8} = 2 + \frac{1}{8} = 2\frac{1}{8}$$

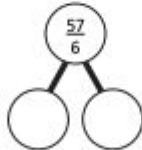
Try using Andy's method to solve these divisions.

a)



$$20 \div 6 = \boxed{} \frac{\boxed{}}{\boxed{}}$$

b)



$$57 \div 6 = \boxed{} \frac{\boxed{}}{\boxed{}}$$

c)



$$365 \div 7 = \boxed{} \frac{\boxed{}}{\boxed{}}$$

