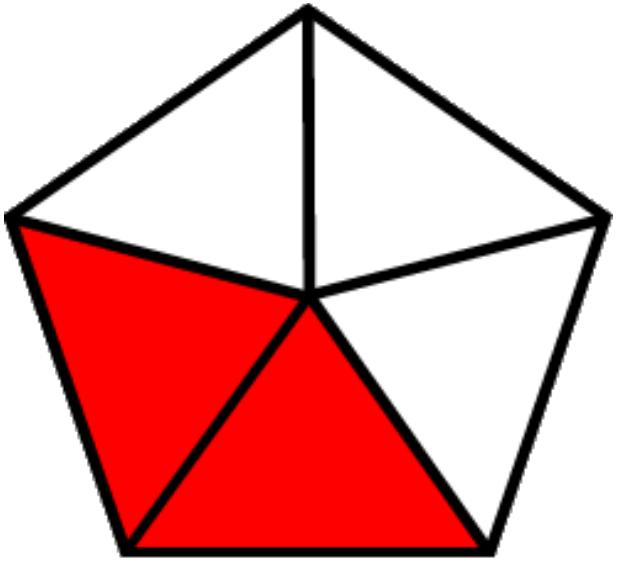
Fun with Fractions!

Holymead Primary



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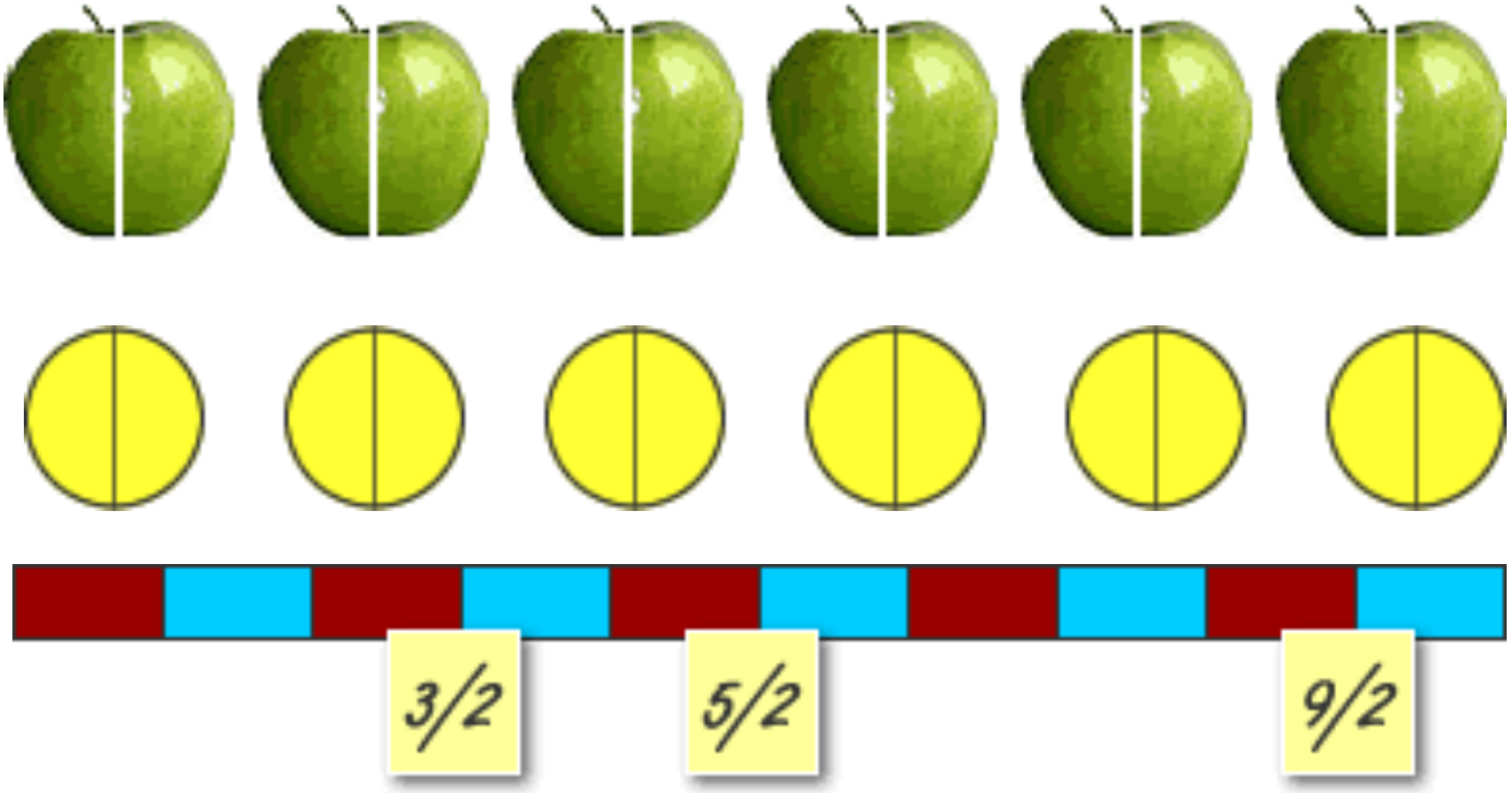
Counting

- LOTS of counting! What concepts could this lead to?



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Ideas for fractions at home

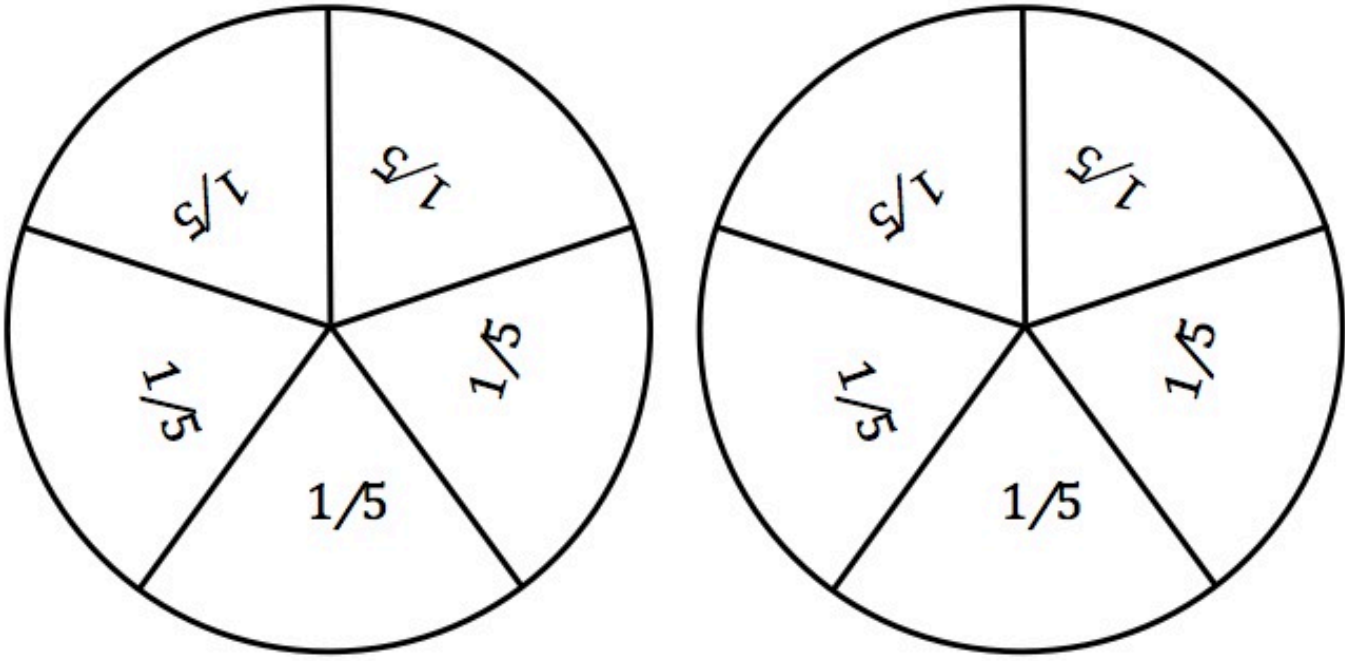
Work with ‘stuff’ (continuous quantities) moving between a unit of ‘1’ and a unit which isn’t 1

Fractions as numbers

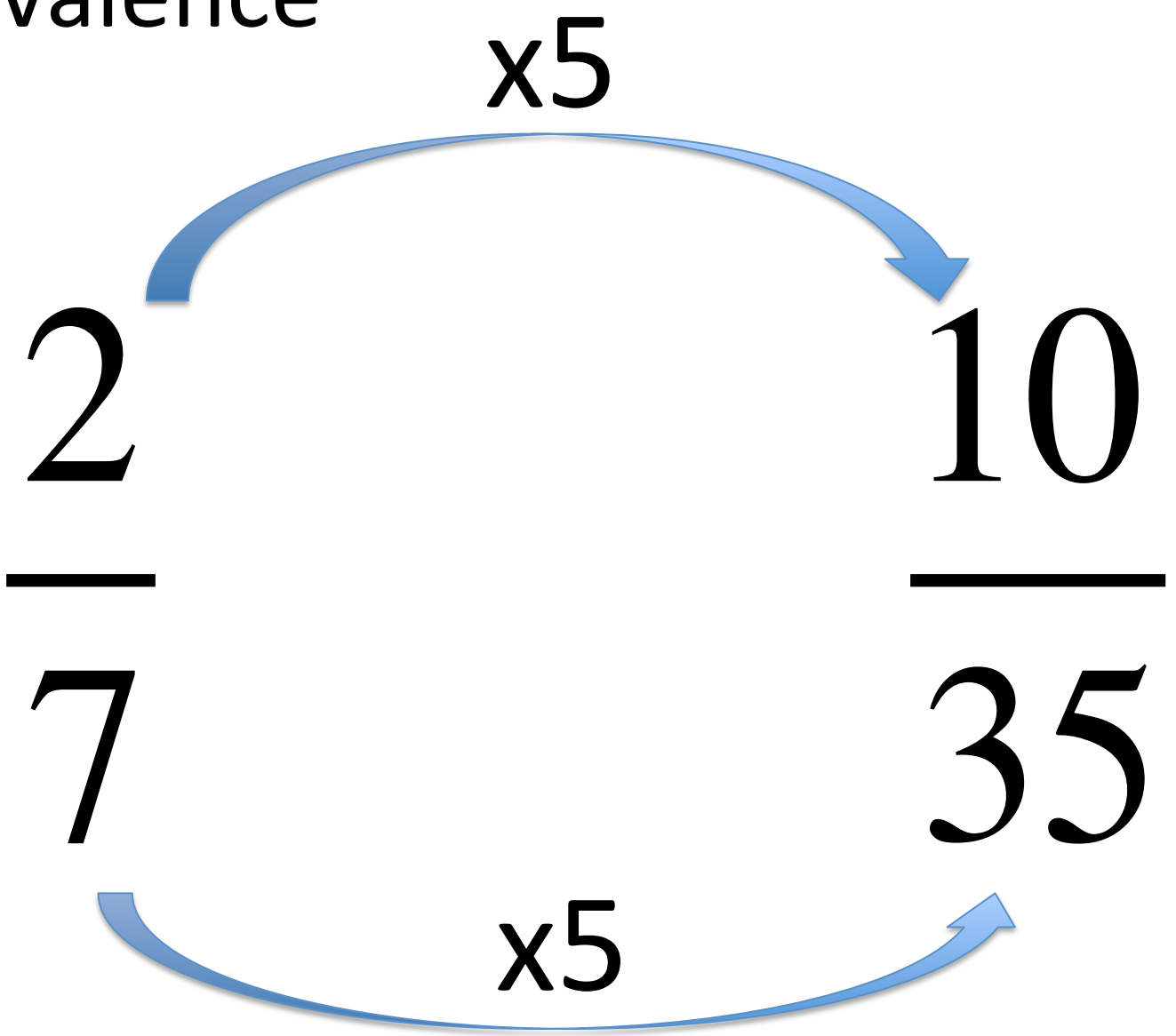
- One half is ½ 0.5 50%
- One quarter is ¼ 0.25 25%
- Three quarters is ¾ 0.75 75%
- One tenth is 1/10 or 0.1
- One hundreth is 1/100 or 0.01

Improper fraction and mixed number

$$\frac{7}{5} = 1\frac{2}{5}$$



Equivalence



Calculating with Fractions

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Calculating with fractions

$$\frac{3}{10}+\frac{3}{10} \qquad \frac{8}{10}+\frac{8}{10} \qquad 1\frac{2}{10}-\frac{3}{10}$$

- Read as: 3 of those things called tenths, add 3 of those things called tenths = 6/10

$$\frac{2}{3}+\frac{1}{4}$$

Calculating with Fractions

- ¾ x 12 (sometimes written as 3/4 of 6)
- 6 ÷ ½ (diagram)
- ⅓ ÷ 2 (diagram)
- ¼ x ½ = ⅛ (picture)

Fractions of quantities
(Fraction x whole number)

¾ x 12 = 9

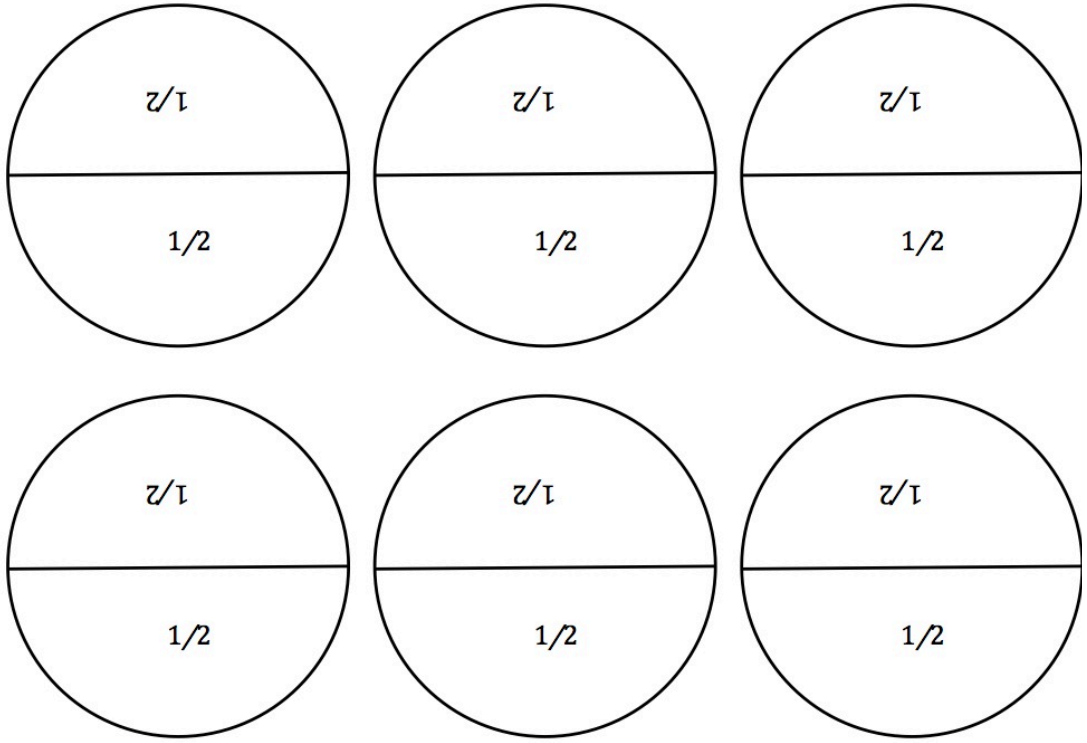
- Draw a bar, split it into four parts (i.e. quarters) then colour three of them

Dividing by fractions
(whole number ÷ a fraction)

** Link to division e.g. 12 ÷ 3 - How many 3s in 12?

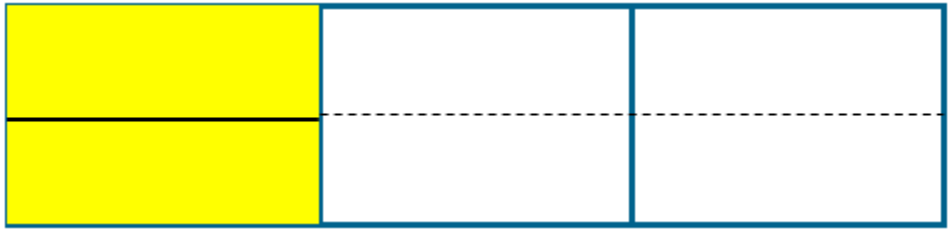
6 ÷ ½ = 12

“How many halves are there in 6?”



Fraction ÷ Whole Number

$$1/3 \div 2$$



Draw a bar, with three parts, then draw a horizontal line to divide by 2

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Multiplying fractions

¼ x ½ = 1/8

Draw a rectangle with quarters on one side and halves on the other. Colour in the quarter, then cross hatch the ½. This explains why you have 1/8 visually.