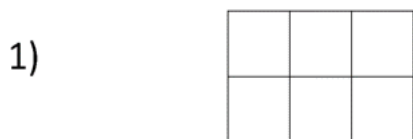


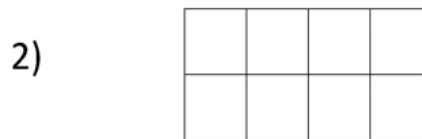
Some of the exercises are SIMILAR but not exactly the same as the exercises in Premier Maths.

1. Shade the following diagrams as requested: (similar to page 88 no 2 & 3)

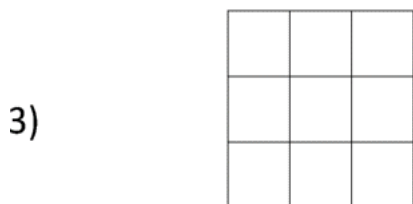
Remember that $\frac{1}{4}$ means 1 out of every 4!



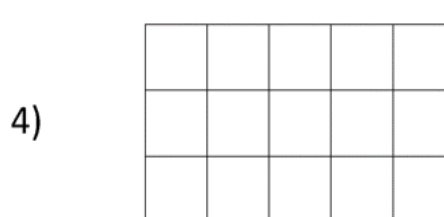
Shade $\frac{1}{2}$



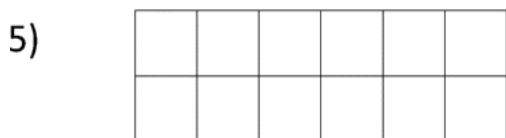
Shade $\frac{1}{4}$



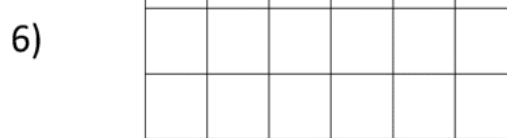
Shade $\frac{2}{3}$



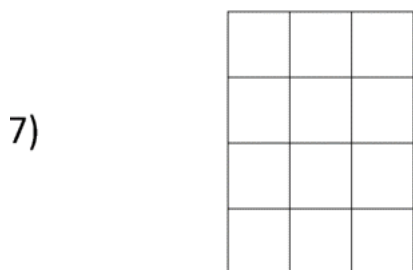
Shade $\frac{1}{3}$



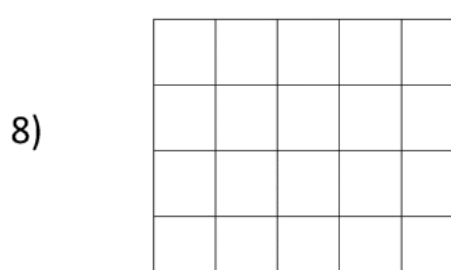
Shade $\frac{3}{4}$



Shade $\frac{1}{6}$



Shade $\frac{5}{12}$



Shade $\frac{4}{5}$

2. What fraction of each diagram above did you NOT shade?

Fraction not shaded	
1	2
3	4
5	6
7	8

3. Use the notes below to answer the questions: (See Prem Maths p 90 no 6)

HOW TO FIND A UNIT FRACTION OF A NUMBER



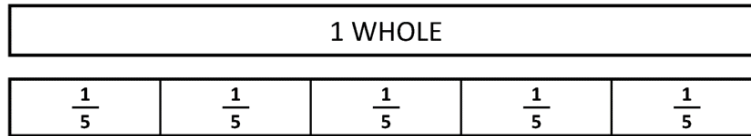
A unit fraction is a fraction where the numerator (top number) is equal to 1.

One way of finding a unit fraction of a number which is great for visual learners is by using fraction strips.

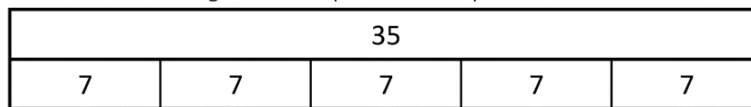
Before children tackle this they should understand how to find fractions of shapes and know what a unit fraction is.

Let us look at an example of finding a $\frac{1}{5}$ of 35.

Here are the fraction strips for a whole and one-fifth.



If we now replace the whole with 35 'wholes' we need to split 35 into fifths and work out what number goes in each part of the strip of fifths.



This is exactly the same as sharing out 35 into 5 equal groups or dividing 35 by 5. This can either be done using times tables ($5 \times ? = 35$), or the 35 can be shared out equally into the 5 strips.

So we finally end up with:

$$\frac{1}{5} \text{ of } 35 = 35 \div 5 = 7$$

Remember the rule: Divide by the denominator; multiply by the numerator

e.g $\frac{1}{6}$ of 42

$$= (42 \div 6) \times 1 \quad (\text{Divide 36 by the denominator and then multiply by the numerator})$$

$$= 7 \times 1 \quad (\text{You got the 7 by saying } 42 \div 6)$$

$$= 7$$

BUT $\frac{4}{6}$ of 42 (First work out what $\frac{1}{6}$ equals by dividing 42 by 6 i.e. $42 \div 6$)

$$= (42 \div 6) \times 4 \quad (\text{Divide 42 by the denominator and then multiply by the numerator})$$

$$= 7 \times 4 \quad (\text{You got the 7 by saying } 42 \div 6)$$

$$= 28$$

NOW use the same method to work out the following: (p 90 no 6)

(Show working out please)

3.1 $\frac{1}{5}$ of 10

3.3 $\frac{4}{8}$ of 16

3.2 $\frac{3}{7}$ of 14

3.4 $\frac{5}{9}$ of 18

4. Order these fractions from biggest to smallest: (p 90 no 7)

4.1 $\frac{4}{5}; \frac{1}{5}; \frac{3}{5}; \frac{2}{5}$ _____

4.2 $\frac{6}{8}; \frac{2}{8}; \frac{4}{8}; \frac{3}{8}; \frac{7}{8}; \frac{5}{8}; \frac{1}{8}$ _____

4.3 $\frac{2}{7}; \frac{6}{7}; \frac{4}{7}; \frac{1}{7}; \frac{5}{7}; \frac{3}{7}$ _____

4.4 $\frac{1}{2}; \frac{3}{4}; \frac{5}{8}; \frac{1}{4}; \frac{7}{8}$ _____

5. Fill in > ; < or = to make the statement true: (p 92 ex 3 no 1)

USE your fraction strip on p 91 or the uploaded strip from last week to answer no 5)

5.1 $\frac{1}{5}$ _____ $\frac{1}{4}$

5.4 $\frac{2}{10}$ _____ $\frac{1}{5}$

5.2 $\frac{2}{3}$ _____ $\frac{3}{5}$

5.5 $\frac{9}{12}$ _____ $\frac{1}{2}$

5.3 $\frac{3}{8}$ _____ $\frac{5}{6}$

5.6 $\frac{2}{11}$ _____ $\frac{8}{9}$

6. **USE** your fraction strip to order these fractions from smallest to biggest: (p 92 no 3)

6.1 $\frac{1}{5}; \frac{1}{10}; \frac{1}{3}; \frac{1}{7}$ _____

6.2 $\frac{2}{8}; \frac{4}{5}; \frac{6}{7}; \frac{1}{2}; \frac{2}{3}$ _____

7. Read the following and write down the fraction: (p 93 no 5)

7.1 Wandile shared his marbles equally between 7 of his friends. What fraction of marbles did each one get? _____

7.2 Amanda wrote 5 out of the 7 pages for her Social Sciences project on Monday. What fraction of her project has she done? _____

8. Complete the equivalent fractions by multiplying or dividing. (p 95 no 1)

8.1 $\frac{1}{2} = \frac{\quad}{10}$

8.2 $\frac{1}{4} = \frac{\quad}{28}$

8.3 $\frac{\quad}{20} = \frac{3}{5}$

8.4 $\frac{\quad}{4} = \frac{12}{16}$

8.5 $\frac{5}{6} = \frac{\quad}{24}$

8.6 $\frac{3}{8} = \frac{9}{\quad}$

8.7 $\frac{4}{\quad} = \frac{2}{3}$

8.8 $\frac{32}{40} = \frac{4}{\quad}$

9. Solve the word problems with a calculation and answer. (p 94 ex 5) **(THREE STEPS)**

9.1 Sally spent $\frac{1}{5}$ of her day swimming and cycling and the other $\frac{2}{5}$ of her day running. What fraction of her day did she spend exercising?

9.2 Jono used $\frac{1}{4}$ of his pocket money for sweets and $\frac{2}{4}$ of his pocket money to buy a present for his grandmother. What fraction of his pocket money did he have **left**?

9.3 Of the animals Tryllin saw in the game reserve, $\frac{5}{10}$ were impala, $\frac{2}{10}$ were elephants and $\frac{1}{10}$ were lions. What fraction is this of all the animals they saw in the game reserve?

9.4 A school decides to use $\frac{5}{12}$ of the money made at their school Walk-a-thon on books and $\frac{4}{12}$ of the money on sports equipment. What fraction of the money was spent on buying books and sports equipment? What fraction of the money was left over?

9.5 Janine spent $\frac{2}{5}$ of her pocket money on sweets. She got R90 pocket money. How much **money** has she left? (Be careful with this sum.)