

# Interleaved practise

Year 7, week 4

Number:

1. Add 1 twelfth to complete the boxes in the top row and write an equivalent fraction below each

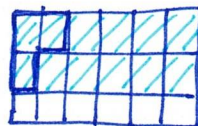
Twelfths	$\frac{1}{12}$	$\frac{3}{12}$	$\frac{3}{12}$	$\frac{4}{12}$	$\frac{5}{12}$	$\frac{6}{12}$	$\frac{7}{12}$	$\frac{8}{12}$	$\frac{9}{12}$	$\frac{10}{12}$	$\frac{11}{12}$	$\frac{12}{12}$ - or 1
Equivalent fraction	$\frac{2}{24}$	$\frac{1}{6}$	$\frac{1}{4}$	$\frac{1}{3}$	$\frac{10}{24}$	$\frac{1}{2}$	$\frac{14}{24}$	$\frac{2}{3}$	$\frac{3}{4}$	$\frac{5}{6}$	$\frac{22}{24}$	1

or  $\frac{3}{4}$  or  $\frac{4}{6}$  or any equivalent fraction.

2. Find the answer and show how you worked it out.

$\frac{1}{2} = \frac{2}{3} - \frac{1}{6}$

examples of working  
 $\frac{8}{12} - \frac{2}{12}$  or  $\frac{4}{6} - \frac{1}{6}$



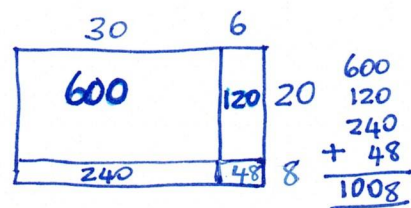
$\frac{2}{3}$  shaded light blue

$\frac{1}{6} = 3$  squares  
 This leaves 9 out of 18 or  $\frac{1}{2}$

3. Complete the table to write numbers as fractions, decimals and percentages.

Fraction	Decimal	Percentage
$\frac{1}{2}$	0.5	50%
$\frac{1}{5}$	0.2	20%
$\frac{1}{4}$	0.25	25%
$\frac{3}{4}$	0.75	75%
$\frac{3}{5}$	0.6	60%

$$\begin{array}{r} 28 \\ \times 36 \\ \hline 168 \\ 840 \\ \hline 1008 \end{array}$$



4.  $28 \times 36$  Work out the answer in more than one way.

5. The following items are on sale at 10% off. How much would you expect to pay?

Skateboard  
 $\$71.00 - 7.10 = \$63.90$

Cap  
 $\$45.00 - 4.50 = \$40.50$

Shoes  
 $\$132.90 - 13.29 = \$119.61$

Book  
 $\$24.80 - 2.48 = \$22.32$

Which combinations of two items could you buy for \$100.00?

$\$63.90$  skateboard  
 $+\$22.30$  and book.  
 $\$86.20$

$\$40.50$  Cap and  
 $+\$22.30$  book.  
 $\$62.80$

Measurement/Geometry:

6. Find 3 prisms in your home and draw them here. What is the same about all of them?

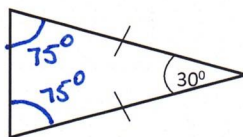
In geometry, a prism is a type of 3-D object that has flat faces. Two of the faces are identical and are called bases. Bases are parallel. The other faces are parallelograms. Rectangles are a type of parallelogram.

Examples



7. What type of triangle is this? Find the missing angles

This is an isosceles triangle.



8. Use the back of this page to draw as many rectangles as you can with a perimeter of 24m. Find at least 2 rectangles with sides that are not whole metres.

Examples of rectangles:  $1m \times 11m$ ,  $2m \times 10m$ ,  $3m \times 9m$ ,  $4m \times 8m$ ,  $5m \times 7m$ ,  $6m \times 6m$ ,  $1.5m$  or  $150cm \times 10.5m$  or  $1050cm$ ,  $3.25m \times 8.75m$  ( $325cm$ ) ( $875cm$ )

Chance/Data:

9. What is the mean height of all the people who live in your house?

This answer will vary according to the number of people and their heights. Your child will need to add everyone's height and divide the sum (total) by the number of people. It is okay to round the heights or use a calculator to divide if necessary.