

To end the week we are going to assess our knowledge of fractions and decimals.

Please do not worry if you have forgotten some of the strategies for comparing and converting etc. Just try your best.

Maths Assessment Year 5: Fractions



1. Compare and order fractions whose denominators are all multiples of the same number.

a) Use the symbols $<$ or $>$ to compare these fractions:

	$<$ or $>$	
$\frac{3}{4}$		$\frac{5}{8}$
$\frac{4}{9}$		$\frac{1}{3}$
$\frac{2}{5}$		$\frac{7}{15}$

b) Order these fractions from smallest to largest:

$\frac{1}{4}$ $\frac{5}{8}$ $\frac{3}{16}$ $\frac{1}{20}$

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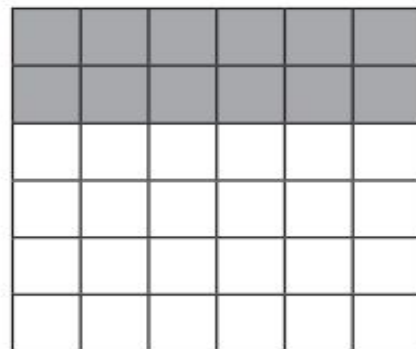
smallest largest



2. Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths.

a) Here is a square. $\frac{12}{36}$ of the square has been shaded. Use the diagram to help you write two equivalent fractions of $\frac{12}{36}$.

$\frac{12}{36} = \boxed{} = \boxed{}$



b) Complete these equivalent pairs:

$\frac{3}{4} = \frac{}{8}$

$\frac{4}{6} = \frac{}{3}$

$\frac{4}{} = \frac{8}{10}$



3. Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number [for example, $\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1\frac{1}{5}$].

a) Convert these improper fractions into mixed numbers:

improper fraction	mixed number
$\frac{5}{2}$	
$\frac{6}{4}$	
$\frac{10}{3}$	
$\frac{15}{6}$	

b) Convert these mixed numbers into improper fractions:

mixed number	improper fraction
$5\frac{1}{2}$	
$3\frac{2}{3}$	
$3\frac{3}{4}$	
$1\frac{7}{8}$	

c) Add these fractions and write the answer as a mixed number:

$$\frac{3}{5} + \frac{4}{5} = \boxed{}$$

$$\frac{2}{9} + \frac{8}{9} = \boxed{}$$

4. Add and subtract fractions with the same denominator, and denominators that are multiples of the same number.

a) Add the following:

$$\frac{5}{9} + \frac{2}{9} = \boxed{}$$

$$\frac{1}{4} + \frac{3}{8} = \boxed{}$$



4 marks



4 marks



2 marks



2 marks



b) Subtract the following:

$$\frac{7}{10} - \frac{4}{10} = \boxed{}$$

$$\frac{9}{15} - \frac{1}{3} = \boxed{}$$

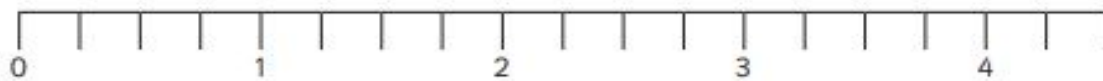


2 marks

5. Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams.

Use these number lines to help you multiply these fractions by a whole number:

$$\frac{3}{4} \times 5 = \boxed{}$$



1 mark

$$\frac{2}{5} \times 6 = \boxed{}$$



1 mark

$$1\frac{1}{4} \times 3 = \boxed{}$$



1 mark

8. Round decimals with 2 decimal places to the nearest whole number and to 1 decimal place.

a) Round these numbers to the nearest whole number:

16.47	
182.75	
20.06	
197.99	
1200.66	

5 marks

Total for this page

Answers -

1. Compare and order fractions whose denominators are

a	$\frac{3}{4}$	$>$	$\frac{5}{8}$	
	$\frac{4}{9}$	$>$	$\frac{1}{3}$	
	$\frac{2}{5}$	$<$	$\frac{7}{15}$	
b	$\frac{1}{20}$	$\frac{3}{16}$	$\frac{1}{4}$	$\frac{5}{8}$

2. Identify, name and write equivalent fractions of a given hundredths.

a	Two fractions from: $\frac{2}{6}$ $\frac{1}{3}$ $\frac{6}{18}$ $\frac{4}{12}$ $\frac{3}{9}$
b	$\frac{3}{4} = \frac{6}{8}$ $\frac{4}{6} = \frac{2}{3}$ $\frac{4}{5} = \frac{8}{10}$

3. Recognise mixed numbers and improper fractions and mathematical statements > 1 as a mixed number [for exa

a	$\frac{5}{2}$	$2 \frac{1}{2}$
	$\frac{6}{4}$	$1 \frac{3}{4}$ or $1 \frac{1}{2}$
	$\frac{10}{3}$	$3 \frac{1}{3}$
	$\frac{15}{6}$	$2 \frac{3}{6}$ or $2 \frac{1}{2}$
b	$5 \frac{1}{2}$	$\frac{11}{2}$
	$3 \frac{2}{3}$	$\frac{11}{3}$
	$3 \frac{3}{4}$	$\frac{15}{4}$
	$1 \frac{7}{8}$	$\frac{15}{8}$
c	$\frac{3}{5} + \frac{4}{5} = 1 \frac{2}{5}$	
	$\frac{2}{9} + \frac{8}{9} = 1 \frac{1}{9}$	

4. Add and subtract fractions with the same denominator number.

	$\frac{5}{9} + \frac{2}{9} = \frac{7}{9}$
	$\frac{1}{4} + \frac{3}{8} = \frac{5}{8}$
	$\frac{7}{10} - \frac{4}{10} = \frac{3}{10}$
	$\frac{9}{15} - \frac{1}{3} = \frac{4}{15}$

5. Multiply proper fractions and mixed numbers by whole

$$\frac{3}{4} \times 5 = 3 \frac{3}{4}$$
$$\frac{2}{5} \times 6 = 2 \frac{2}{5}$$
$$1 \frac{1}{4} \times 3 = 3 \frac{3}{4}$$

6. Read and write decimal numbers as fractions (for exam

0.34	$\frac{34}{100}$
0.3	$\frac{3}{10}$
0.09	$\frac{9}{100}$
0.17	$\frac{17}{100}$

7. Recognise and use thousandths and relate them to ten

$$\frac{45}{1000} = 0.045$$
$$\frac{300}{1000} = \frac{3}{10}$$
$$\frac{250}{1000} = \frac{25}{100}$$

8. Round decimals with 2 decimal places to the nearest w

a	16.47	16
	182.75	183
	20.06	20
	197.99	198
	1200.66	1201
b	17.58	17.6
	124.63	124.6
	501.33	501.3
	1790.69	1790.7
	2432.45	2432.5