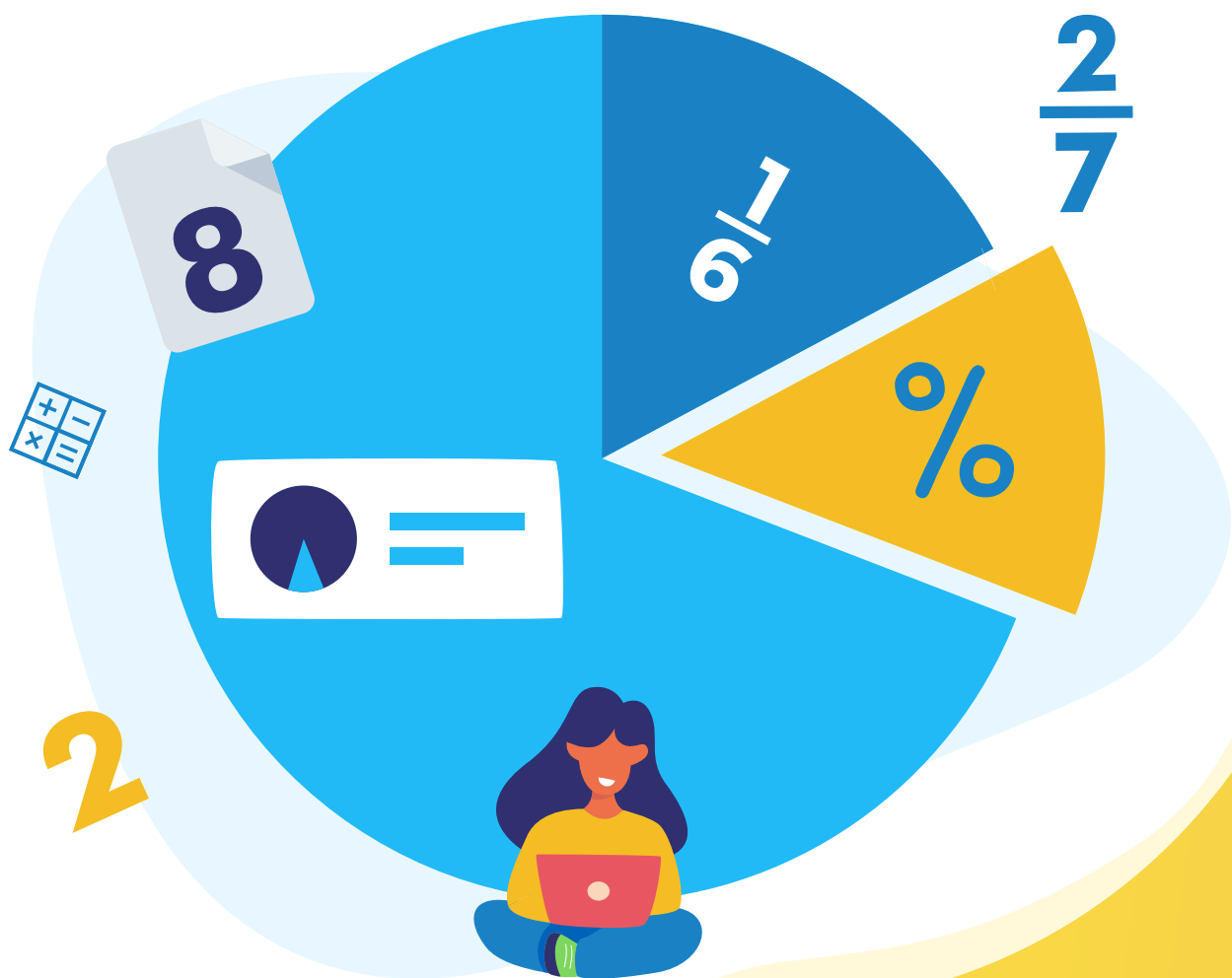


Mathletics

Fraction Worksheets



Teacher Solutions

Year 7

Fractions

Page 2 questions

Proper fractions

1 a $\frac{1}{3}$

b $\frac{5}{8}$

c $\frac{3}{4}$

d $\frac{9}{19}$

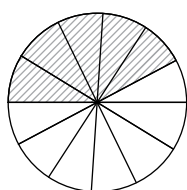
e $\frac{9}{18} = \frac{1}{2}$

f $\frac{11}{18}$

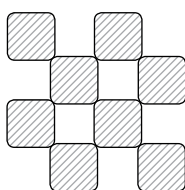
g $\frac{3}{5}$

h $\frac{5}{9}$

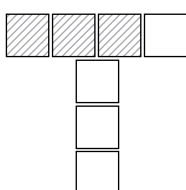
2 a $\frac{5}{12}$



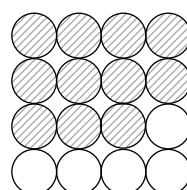
b $\frac{8}{8}$



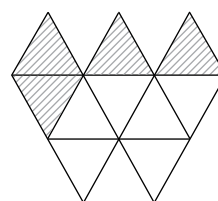
c $\frac{3}{7}$



d $\frac{11}{16}$

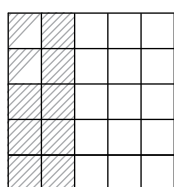


e $\frac{4}{10}$

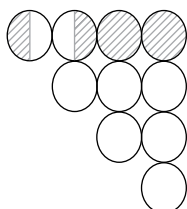


3 There are many possible ways to shade. Here is just one way for each of them.

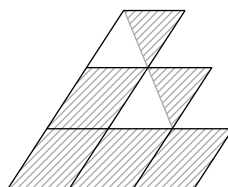
a $\frac{9}{25}$



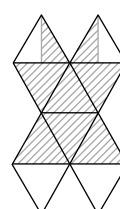
b $\frac{3}{10}$



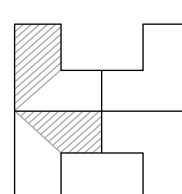
c $\frac{5}{6}$



d $\frac{7}{10}$



e $\frac{1}{4}$



Page 3 questions

Proper fractions

4 There are many possible ways to shade. Here is just one way for each of them.

a (i)

(ii)

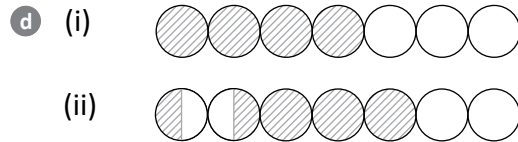
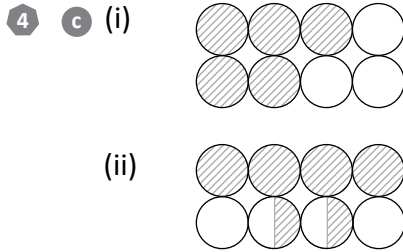
b (i)

(ii)

Fractions

Page 3 questions

Proper fractions



Page 5 questions

Equivalent proper fractions

1 a $\frac{2}{3} = \frac{4}{6} = \frac{16}{24}$

b $\frac{1}{2} = \frac{3}{6} = \frac{6}{12} = \frac{2}{4}$

2 a $\frac{1 \times 5}{4 \times 5} = \frac{5}{20}$

b $\frac{8 \div 2}{10 \div 2} = \frac{4}{5}$

c $\frac{3 \times 3}{5 \times 3} = \frac{9}{15}$

d $\frac{12 \div 6}{24 \div 6} = \frac{2}{4}$

3 a $\frac{16 \div 4}{20 \div 4} = \frac{4}{5}$

b $\frac{8 \div 8}{32 \div 8} = \frac{1}{4}$

4 a $\frac{14 \div 7}{21 \div 7} = \frac{2}{3}$

b $\frac{16 \div 8}{24 \div 8} = \frac{2}{3}$

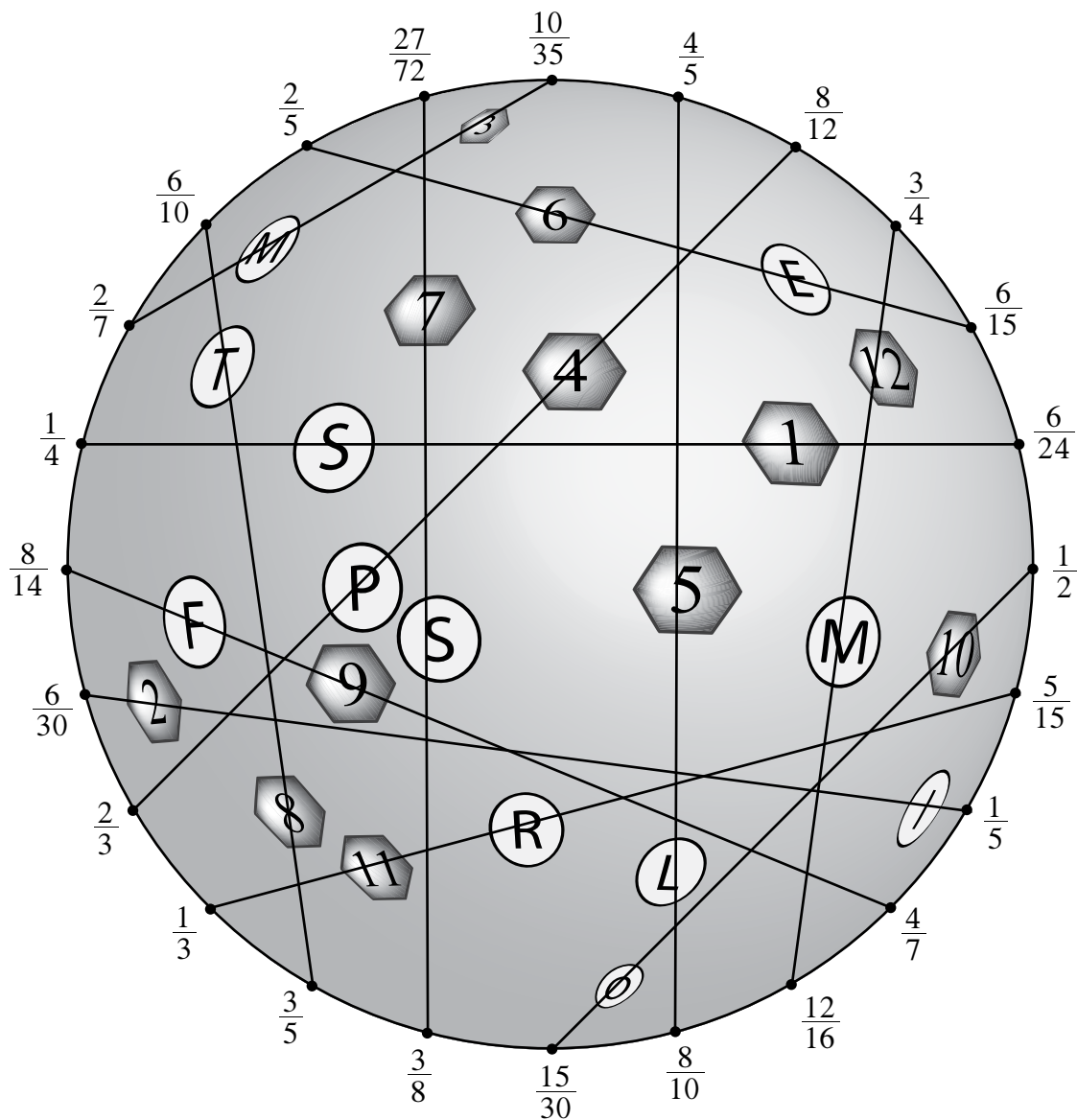
5 $\frac{14}{21}$ and $\frac{16}{24}$ are equivalent fractions as they both simplify fully to give $\frac{2}{3}$.

Fractions

Page 6 questions

Equivalent proper fractions

6



S I M P L E S T

F O R M

1 2 3 4 5 6 7 8

9 10 11 12

Fractions

Page 8 questions

Improper fractions and mixed numerals

1 a $2\frac{2}{3}$

b $3\frac{1}{4}$

c $3\frac{2}{5}$

d $1\frac{2}{8} = 1\frac{1}{4}$

e $2\frac{2}{4} = 2\frac{1}{2}$

f $3\frac{3}{4}$

2 a $\frac{12}{5} = 2\frac{2}{5}$

b $\frac{14}{3} = 4\frac{2}{3}$

c $\frac{23}{2} = 11\frac{1}{2}$

3 a $\frac{15}{9} = \frac{5}{3} = 1\frac{2}{3}$

b $\frac{21}{14} = \frac{3}{2} = 1\frac{1}{2}$

c $\frac{18}{16} = \frac{9}{8} = 1\frac{1}{8}$

4 a $1\frac{1}{2} = 1\frac{1}{2}$
 $= \frac{3}{2}$

b $2\frac{3}{4} = 2\frac{3}{4}$
 $= \frac{11}{4}$

c $4\frac{4}{5} = 4\frac{4}{5}$
 $= \frac{24}{5}$

5 a $4\frac{2}{12} = 4\frac{1}{6}$
 $= 4\frac{1}{6}$
 $= \frac{25}{6}$

b $2\frac{6}{24} = 2\frac{1}{4}$
 $= 2\frac{1}{4}$
 $= \frac{9}{4}$

c $25\frac{24}{72} = 25\frac{1}{3}$
 $= 25\frac{1}{3}$
 $= \frac{76}{3}$

Fractions

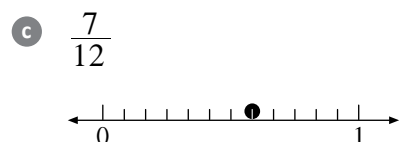
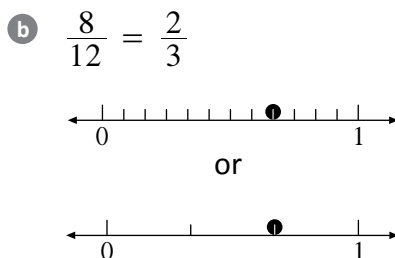
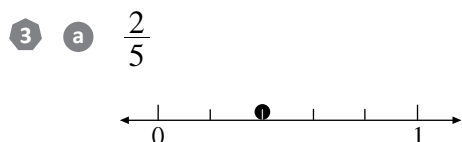
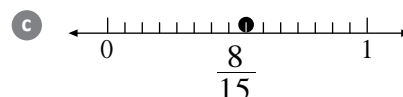
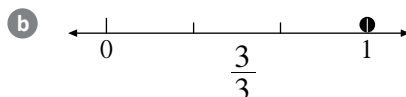
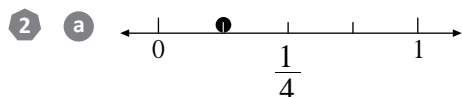
Page 10 questions

Fractions on the number line

1 a $\frac{1}{3}$

b $\frac{4}{5}$

c $\frac{3}{8}$



4 a $2\frac{2}{3} = \frac{8}{3}$

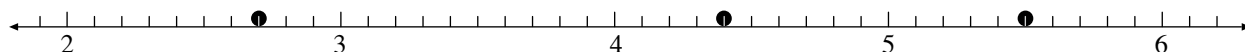
b $1\frac{1}{4} = \frac{5}{4}$

c $5\frac{3}{5} = \frac{28}{5}$

5 a $\frac{27}{10} = 2\frac{7}{10}$

b $\frac{11}{2} = 5\frac{1}{2}$

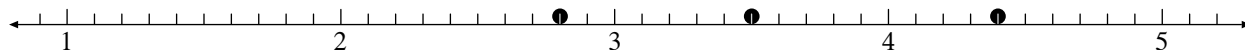
c $\frac{22}{5} = 4\frac{2}{5}$



6 a $\frac{42}{15} = \frac{14}{5} = 2\frac{4}{5}$

b $\frac{63}{18} = \frac{7}{2} = 3\frac{1}{2}$

c $\frac{110}{25} = \frac{22}{5} = 4\frac{2}{5}$



Mathletics

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