

Fractions - Worksheet

Skill

Group A - Equivalent fractions

Write these fractions in their simplest terms:

1) $\frac{30}{40}$

2) $\frac{32}{40}$

3) $\frac{36}{40}$

4) $\frac{15}{35}$

5) $\frac{20}{35}$

6) $\frac{21}{35}$

7) $\frac{10}{50}$

8) $\frac{25}{50}$

9) $\frac{45}{50}$

10) $\frac{12}{60}$

11) $\frac{18}{60}$

12) $\frac{45}{60}$

Group B - Fractions of amounts

Work out:

1) $\frac{1}{5}$ of 45

2) $\frac{3}{5}$ of 45

3) $\frac{4}{5}$ of 45

4) $\frac{1}{7}$ of 35

5) $\frac{4}{7}$ of 35

6) $\frac{5}{7}$ of 35

7) $\frac{1}{8}$ of 48

8) $\frac{3}{8}$ of 48

9) $\frac{5}{8}$ of 48

10) $\frac{1}{9}$ of 27

11) $\frac{2}{9}$ of 27

12) $\frac{5}{9}$ of 27

Fractions - Worksheet

Group C - Adding, subtracting, multiplying and dividing

Work out:

1) $\frac{3}{4} + \frac{1}{5}$

2) $\frac{3}{5} + \frac{1}{6}$

3) $\frac{2}{3} + \frac{3}{10}$

4) $\frac{3}{4} - \frac{1}{5}$

5) $\frac{3}{5} - \frac{1}{6}$

6) $\frac{2}{3} - \frac{3}{10}$

7) $\frac{1}{2} \times \frac{7}{9}$

8) $\frac{3}{7} \times \frac{4}{5}$

9) $\frac{2}{9} \times \frac{5}{7}$

10) $\frac{1}{2} \div \frac{7}{9}$

11) $\frac{3}{7} \div \frac{4}{5}$

12) $\frac{2}{9} \div \frac{5}{7}$

Fractions - Worksheet

Applied

1) Write these fractions in order of size:

(a) $\frac{1}{2}, \frac{3}{4}, \frac{2}{3}, \frac{5}{12}$

(b) $\frac{2}{3}, \frac{5}{8}, \frac{3}{4}, \frac{17}{24}$

2) Work out:

(a) $1\frac{2}{3} + 2\frac{1}{4}$

(b) $3\frac{5}{7} - 1\frac{2}{5}$

3) Work out:

(a) $1\frac{3}{5} \times 2\frac{2}{3}$

(b) $1\frac{2}{5} \div 2\frac{1}{2}$

4) (a) Clare earns £430 per week.

She spends $\frac{3}{5}$ of the money and saves the rest.

How much money does Clare save each week?

(b) Casey earns £34,860 per year.

She spends $\frac{4}{7}$ of the money and saves the rest.

How much money does Casey save per year?

Fractions - Exam Questions

- 1) Without a calculator. Work out.
Give your answer as a mixed number. **(3 marks)**

$$\frac{4}{7} + \frac{5}{6}$$

- 2) Without a calculator. Work out.
Give your answer as a mixed number. **(4 marks)**

$$7\frac{1}{4} \div 2\frac{2}{3}$$

- 3) Marty has a bookcase with only fiction
and non-fiction books. **(3 marks)**

$$\frac{2}{7} \text{ of the books are non-fiction.}$$

If there are 10 non-fiction books, how
many books are fiction?

Fractions - Answers

	Question	Answer
Group A	Skill Questions	
	<p>Write these fractions in their simplest terms:</p> <p>1) $\frac{30}{40}$</p> <p>2) $\frac{32}{40}$</p> <p>3) $\frac{36}{40}$</p> <p>4) $\frac{15}{35}$</p> <p>5) $\frac{20}{35}$</p> <p>6) $\frac{21}{35}$</p> <p>7) $\frac{10}{50}$</p> <p>8) $\frac{25}{50}$</p> <p>9) $\frac{45}{50}$</p> <p>10) $\frac{12}{60}$</p> <p>11) $\frac{18}{60}$</p> <p>12) $\frac{45}{60}$</p>	<p>1) $\frac{3}{4}$</p> <p>2) $\frac{4}{5}$</p> <p>3) $\frac{9}{10}$</p> <p>4) $\frac{3}{7}$</p> <p>5) $\frac{4}{7}$</p> <p>6) $\frac{3}{5}$</p> <p>7) $\frac{1}{5}$</p> <p>8) $\frac{1}{2}$</p> <p>9) $\frac{9}{10}$</p> <p>10) $\frac{1}{5}$</p> <p>11) $\frac{3}{10}$</p> <p>12) $\frac{3}{4}$</p>
Group B	<p>Work out:</p> <p>1) $\frac{1}{5}$ of 45</p> <p>2) $\frac{3}{5}$ of 45</p> <p>3) $\frac{4}{5}$ of 45</p> <p>4) $\frac{1}{7}$ of 35</p>	<p>1) 9</p> <p>2) 27</p> <p>3) 36</p> <p>4) 5</p>

Fractions - Answers

Group B	<p>5) $\frac{4}{7}$ of 35</p> <p>6) $\frac{5}{7}$ of 35</p> <p>7) $\frac{1}{8}$ of 48</p> <p>8) $\frac{3}{8}$ of 48</p> <p>9) $\frac{5}{8}$ of 48</p> <p>10) $\frac{1}{9}$ of 27</p> <p>11) $\frac{2}{9}$ of 27</p> <p>12) $\frac{5}{9}$ of 27</p>	<p>5) 20</p> <p>6) 25</p> <p>7) 6</p> <p>8) 18</p> <p>9) 30</p> <p>10) 3</p> <p>11) 6</p> <p>12) 15</p>
Group C	<p>Work out:</p> <p>1) $\frac{3}{4} + \frac{1}{5}$</p> <p>2) $\frac{3}{5} + \frac{1}{6}$</p> <p>3) $\frac{2}{3} + \frac{3}{10}$</p> <p>4) $\frac{3}{4} - \frac{1}{5}$</p> <p>5) $\frac{3}{5} - \frac{1}{6}$</p> <p>6) $\frac{2}{3} - \frac{3}{10}$</p> <p>7) $\frac{1}{2} \times \frac{7}{9}$</p> <p>8) $\frac{3}{7} \times \frac{4}{5}$</p>	<p>1) $\frac{19}{20}$</p> <p>2) $\frac{23}{30}$</p> <p>3) $\frac{29}{30}$</p> <p>4) $\frac{11}{20}$</p> <p>5) $\frac{13}{30}$</p> <p>6) $\frac{11}{30}$</p> <p>7) $\frac{7}{18}$</p> <p>8) $\frac{12}{35}$</p>

Fractions - Answers

Group C	9) $\frac{2}{9} \times \frac{5}{7}$	9) $\frac{10}{63}$
	10) $\frac{1}{2} \div \frac{7}{9}$	10) $\frac{9}{14}$
	11) $\frac{3}{7} \div \frac{4}{5}$	11) $\frac{15}{28}$
	12) $\frac{2}{9} \div \frac{5}{7}$	12) $\frac{14}{45}$

Fractions - Answers

	Question	Answer
	Applied Questions	
1)	<p>Write these fractions in order of size:</p> <p>(a) $\frac{1}{2}, \frac{3}{4}, \frac{2}{3}, \frac{5}{12}$</p> <p>(b) $\frac{2}{3}, \frac{5}{8}, \frac{3}{4}, \frac{17}{24}$</p>	<p>(a) $\frac{5}{12}, \frac{1}{2}, \frac{2}{3}, \frac{3}{4}$</p> <p>(b) $\frac{5}{8}, \frac{2}{3}, \frac{17}{24}, \frac{3}{4}$</p>
2)	<p>Work out:</p> <p>(a) $1\frac{2}{3} + 2\frac{1}{4}$</p> <p>(b) $3\frac{5}{7} - 1\frac{2}{5}$</p>	<p>(a) $3\frac{11}{12}$</p> <p>(b) $2\frac{11}{35}$</p>
3)	<p>Work out:</p> <p>(a) $1\frac{3}{5} \times 2\frac{2}{3}$</p> <p>(b) $1\frac{2}{5} \div 2\frac{1}{2}$</p>	<p>(a) $4\frac{4}{15}$</p> <p>(b) $\frac{14}{25}$</p>
4)	<p>(a) Clare earns £430 per week. She spends $\frac{3}{5}$ of the money and saves the rest. How much money does Clare save each week?</p> <p>Casey earns £34,860 per year. She spends</p> <p>(b) $\frac{4}{7}$ of the money and saves the rest. How much money does Casey save per year?</p>	<p>(a) £172</p> <p>(b) £14,940</p>

Fractions - Mark Scheme

	Question	Answer	
	Exam Questions		
1)	<p>Without a calculator. Work out.</p> <p>Give your answer as a mixed number.</p> $\frac{4}{7} + \frac{5}{6}$	$= \frac{24}{42} + \frac{35}{42} \text{ (1)}$ $= \frac{59}{42} \text{ (1)}$ $= 1\frac{17}{42} \text{ (1)}$	(3)
2)	<p>Without a calculator. Work out.</p> <p>Give your answer as a mixed number.</p> $7\frac{1}{4} \div 2\frac{2}{3}$	$= \frac{29}{4} \div \frac{8}{3} \text{ (1)}$ $= \frac{29}{4} \times \frac{3}{8} \text{ (1)}$ $= \frac{87}{32} \text{ (1)}$ $= 2\frac{23}{32} \text{ (1)}$	(4)
3)	<p>Marty has a bookcase with only fiction and non-fiction books.</p> $\frac{2}{7}$ of the books are non-fiction. <p>If there are 10 non-fiction books, how many books are fiction?</p>	$= \frac{2}{7} = \frac{10}{35} \text{ (1)}$ $= 1 - \frac{10}{35} = \frac{25}{35} \text{ (1)}$ <p>25 fiction books (1)</p>	(3)

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