

Adding & Subtracting Fractions - Worksheet

Skill

Group A - Fractions with a common denominator

Work out the following - give your answers as a fraction in its simplest form:

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

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

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

4) $\frac{2}{3} - \frac{1}{3}$

5) $\frac{2}{5} - \frac{1}{5}$

6) $\frac{2}{7} - \frac{1}{7}$

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

8) $\frac{3}{8} + \frac{1}{8}$

9) $\frac{3}{10} + \frac{1}{10}$

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

11) $\frac{3}{8} - \frac{1}{8}$

12) $\frac{3}{10} - \frac{1}{10}$

Group B - Fractions with no common denominator

Work out the following - give your answers as a fraction in its simplest form:

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

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

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

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

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

6) $\frac{2}{5} - \frac{1}{4}$

7) $\frac{3}{8} + \frac{1}{3}$

8) $\frac{5}{8} + \frac{1}{3}$

9) $\frac{3}{8} + \frac{2}{3}$

10) $\frac{6}{7} - \frac{1}{2}$

11) $\frac{5}{7} - \frac{1}{2}$

12) $\frac{4}{7} - \frac{1}{2}$

Adding & Subtracting Fractions - Worksheet

Group C - Mixed numbers

Work out the following - give your answers as a fraction in its simplest form:

1) $1\frac{1}{2} + 1\frac{1}{4}$

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

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

4) $2\frac{1}{3} - 1\frac{1}{5}$

5) $2\frac{1}{3} - 1\frac{1}{4}$

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

7) $2\frac{1}{5} - 1\frac{3}{4}$

8) $2\frac{1}{5} + 1\frac{2}{3}$

9) $2\frac{3}{5} + 1\frac{2}{3}$

10) $3\frac{3}{4} - 1\frac{1}{3}$

11) $3\frac{3}{4} - 1\frac{2}{3}$

12) $3\frac{1}{4} - 1\frac{2}{3}$

Adding & Subtracting Fractions - Worksheet

Applied

1) Work out:

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

(b) $\frac{4}{5} - \frac{1}{2} + \frac{2}{3}$

2) (a) Holly spends $\frac{1}{4}$ of her pocket-money on make-up and $\frac{1}{3}$ of her pocket-money on clothes. Holly saves the rest of her pocket-money. What fraction of her pocket-money does Holly save?

(b) Patrick spends $\frac{1}{5}$ of his pocket-money on music and $\frac{2}{7}$ of his pocket-money on clothes. Patrick saves the rest of his pocket-money. What fraction of his pocket-money does Patrick save?

3) (a) There are two tins of paint. In the first tin there are $2\frac{1}{3}$ litres of paint. In the second tin there are $1\frac{3}{5}$ litres of paint. How many litres of paint are there altogether?

(b) For my recipe I need 5 kg of flour. In one bag I have $2\frac{2}{3}$ kg of flour. In a second bag I have $1\frac{3}{8}$ kg of flour. How much more flour do I need in kg?

Adding & Subtracting Fractions - Exam Questions

- 1) Work out. Circle the answer. $\frac{5}{9} + \frac{8}{9}$
(1 mark)

$$1\frac{4}{9} \quad \frac{13}{18} \quad 1\frac{3}{9} \quad \frac{13}{81}$$

- 2) Work out. Give your answer as a mixed number. $\frac{6}{7} + \frac{3}{4}$
(3 marks)

- 3) Here are 2 fractions. Which fraction is closest to 1? You must show your working. $\frac{7}{8} \quad \frac{8}{7}$
(3 marks)

Adding & Subtracting Fractions - Answers

	Question	Answer
Group A	Skill Questions	
	<p>Work out the following - give your answers as a fraction in its simplest form:</p> <p>1) $\frac{1}{3} + \frac{1}{3}$</p> <p>2) $\frac{1}{5} + \frac{1}{5}$</p> <p>3) $\frac{1}{4} + \frac{1}{4}$</p> <p>4) $\frac{2}{3} - \frac{1}{3}$</p> <p>5) $\frac{2}{5} - \frac{1}{5}$</p> <p>6) $\frac{2}{7} - \frac{1}{7}$</p> <p>7) $\frac{3}{5} + \frac{1}{5}$</p> <p>8) $\frac{3}{8} + \frac{1}{8}$</p> <p>9) $\frac{3}{10} + \frac{1}{10}$</p> <p>10) $\frac{3}{5} - \frac{1}{5}$</p> <p>11) $\frac{3}{8} - \frac{1}{8}$</p> <p>12) $\frac{3}{10} - \frac{1}{10}$</p>	<p>1) $\frac{2}{3}$</p> <p>2) $\frac{2}{5}$</p> <p>3) $\frac{1}{2}$</p> <p>4) $\frac{1}{3}$</p> <p>5) $\frac{1}{5}$</p> <p>6) $\frac{1}{7}$</p> <p>7) $\frac{4}{5}$</p> <p>8) $\frac{1}{2}$</p> <p>9) $\frac{2}{5}$</p> <p>10) $\frac{2}{5}$</p> <p>11) $\frac{1}{4}$</p> <p>12) $\frac{1}{5}$</p>

Adding & Subtracting Fractions - Answers

	Question	Answer
Group B	Skill Questions	
	<p>Work out the following - give your answers as a fraction in its simplest form:</p> <p>1) $\frac{1}{5} + \frac{1}{4}$</p> <p>2) $\frac{3}{5} + \frac{1}{4}$</p> <p>3) $\frac{4}{5} + \frac{1}{4}$</p> <p>4) $\frac{4}{5} - \frac{1}{4}$</p> <p>5) $\frac{3}{5} - \frac{1}{4}$</p> <p>6) $\frac{2}{5} - \frac{1}{4}$</p> <p>7) $\frac{3}{8} + \frac{1}{3}$</p> <p>8) $\frac{5}{8} + \frac{1}{3}$</p> <p>9) $\frac{3}{8} + \frac{2}{3}$</p> <p>10) $\frac{6}{7} - \frac{1}{2}$</p> <p>11) $\frac{5}{7} - \frac{1}{2}$</p> <p>12) $\frac{4}{7} - \frac{1}{2}$</p>	<p>1) $\frac{9}{20}$</p> <p>2) $\frac{17}{20}$</p> <p>3) $1\frac{1}{20}$</p> <p>4) $\frac{11}{20}$</p> <p>5) $\frac{7}{20}$</p> <p>6) $\frac{3}{20}$</p> <p>7) $\frac{17}{24}$</p> <p>8) $\frac{23}{24}$</p> <p>9) $1\frac{1}{24}$</p> <p>10) $\frac{5}{14}$</p> <p>11) $\frac{3}{14}$</p> <p>12) $\frac{1}{14}$</p>

Adding & Subtracting Fractions - Answers

	Question	Answer
Group C	Skill Questions	
	<p>Work out the following - give your answers as a fraction in its simplest form:</p> <p>1) $1\frac{1}{2} + 1\frac{1}{4}$</p> <p>2) $1\frac{1}{2} + 1\frac{1}{5}$</p> <p>3) $1\frac{1}{2} + 1\frac{1}{6}$</p> <p>4) $2\frac{1}{3} - 1\frac{1}{5}$</p> <p>5) $2\frac{1}{3} - 1\frac{1}{4}$</p> <p>6) $2\frac{1}{3} - 1\frac{1}{6}$</p> <p>7) $2\frac{1}{5} - 1\frac{3}{4}$</p> <p>8) $2\frac{1}{5} + 1\frac{2}{3}$</p> <p>9) $2\frac{3}{5} + 1\frac{2}{3}$</p> <p>10) $3\frac{3}{4} - 1\frac{1}{3}$</p> <p>11) $3\frac{3}{4} - 1\frac{2}{3}$</p> <p>12) $3\frac{1}{4} - 1\frac{2}{3}$</p>	<p>1) $2\frac{3}{4}$</p> <p>2) $2\frac{7}{10}$</p> <p>3) $2\frac{2}{3}$</p> <p>4) $1\frac{2}{15}$</p> <p>5) $1\frac{1}{12}$</p> <p>6) $1\frac{1}{6}$</p> <p>7) $3\frac{19}{20}$</p> <p>8) $3\frac{13}{15}$</p> <p>9) $4\frac{4}{15}$</p> <p>10) $2\frac{5}{12}$</p> <p>11) $2\frac{1}{12}$</p> <p>12) $1\frac{7}{12}$</p>

Adding & Subtracting Fractions - Answers

	Question	Answer
	Applied Questions	
1)	<p>Work out:</p> <p>a) $\frac{1}{5} + \frac{1}{2} + \frac{1}{3}$</p> <p>b) $\frac{4}{5} - \frac{1}{2} + \frac{2}{3}$</p>	<p>a) $1\frac{1}{30}$</p> <p>b) $\frac{29}{30}$</p>
2)	<p>a) Holly spends $\frac{1}{4}$ of her pocket-money on make-up and $\frac{1}{3}$ of her pocket-money on clothes. Holly saves the rest of her pocket-money. What fraction of her pocket-money does Holly save?</p> <p>b) Patrick spends $\frac{1}{5}$ of his pocket-money on music and $\frac{2}{7}$ of his pocket-money on clothes. Patrick saves the rest of his pocket-money. What fraction of his pocket-money does Patrick save?</p>	<p>a) $\frac{7}{12}$</p> <p>b) $\frac{18}{35}$</p>
3)	<p>a) There are two tins of paint. In the first tin there are $2\frac{1}{3}$ litres of paint. In the second tin there are $1\frac{3}{5}$ litres of paint. How many litres of paint are there altogether?</p> <p>For my recipe I need 5 kg of flour. In one bag I have $2\frac{2}{3}$ kg of flour. In a second bag I have $1\frac{3}{8}$ kg of flour. How much more flour do I need in kg?</p>	<p>a) $3\frac{14}{15}$ litres</p> <p>b) $\frac{23}{24}$ kg</p>

Adding & Subtracting Fractions - Mark Scheme

	Question	Answer	
	Exam Questions		
1)	Work out. $\frac{5}{9} + \frac{8}{9}$	Circle the answer. $1\frac{4}{9}$ $\frac{13}{18}$ $1\frac{3}{9}$ $\frac{13}{81}$ Correct answer is $1\frac{4}{9}$.	(1)
2)	Work out. Give your answer as a mixed number. $\frac{6}{7} + \frac{3}{4}$	$\frac{6}{7} + \frac{3}{4} = \frac{24}{28} + \frac{21}{28}$ $\frac{24+21}{28} = \frac{45}{28}$ $\frac{45}{28} = 1\frac{17}{28}$	(3)
3)	Here are 2 fractions. $\frac{7}{8}$ $\frac{8}{7}$ Which fraction is closest to 1? You must show your working.	$\frac{7}{8} = \frac{49}{56}$ $\frac{8}{7} = \frac{64}{56}$ $\frac{56}{56} - \frac{49}{56} = \frac{7}{56}$ $\frac{64}{56} - \frac{56}{56} = \frac{8}{56}$ Closest fraction to 1 is $\frac{7}{8}$.	(3)

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