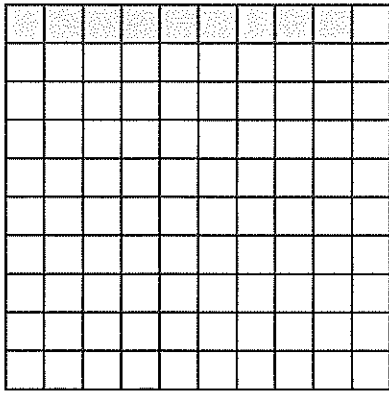
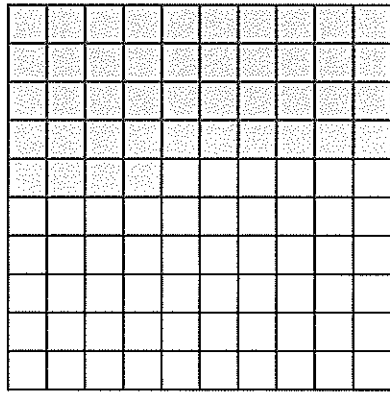


Visual Representations of Fractions, Decimals and Percentages **Answers**

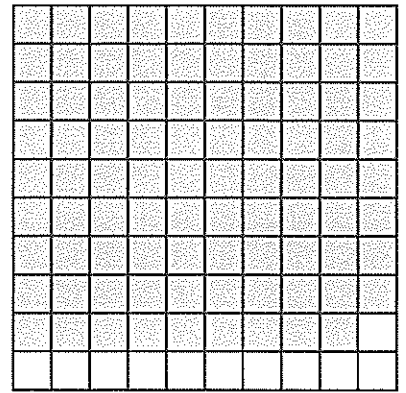
Please accept suitable equivalent fractions and simplified decimals.



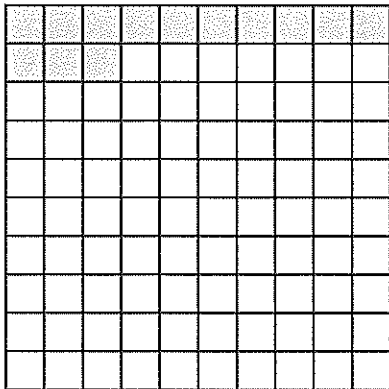
9% $\frac{9}{100}$ 0.09



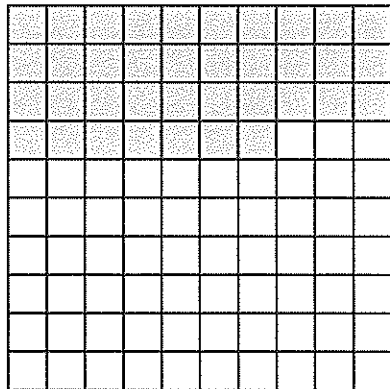
44% $\frac{44}{100}$ 0.44



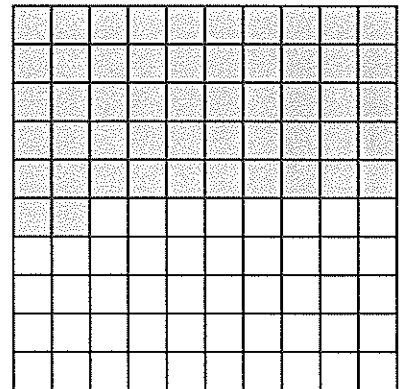
89% $\frac{89}{100}$ 0.89



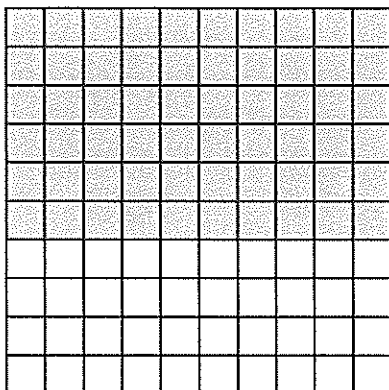
13% $\frac{13}{100}$ 0.13



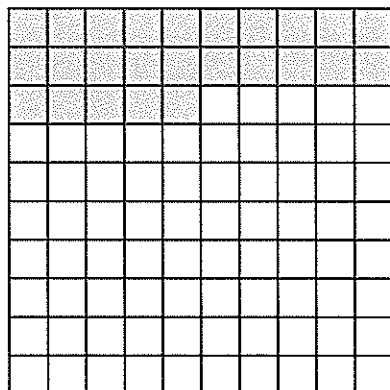
37% $\frac{37}{100}$ 0.37



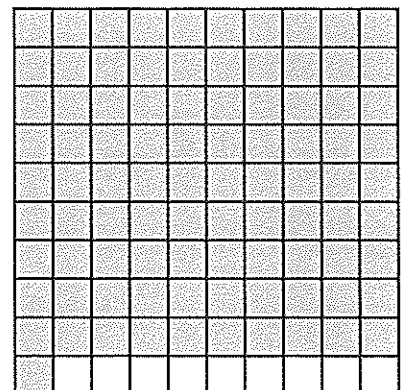
52% $\frac{52}{100}$ 0.52



60% $\frac{60}{100}$ 0.6



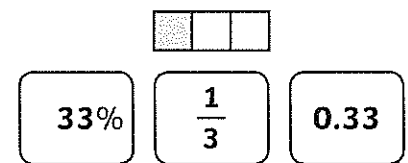
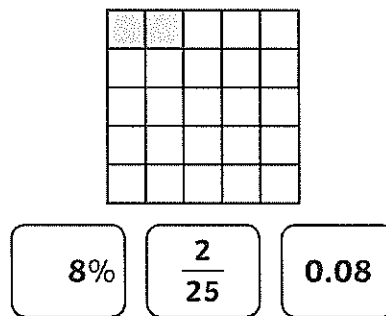
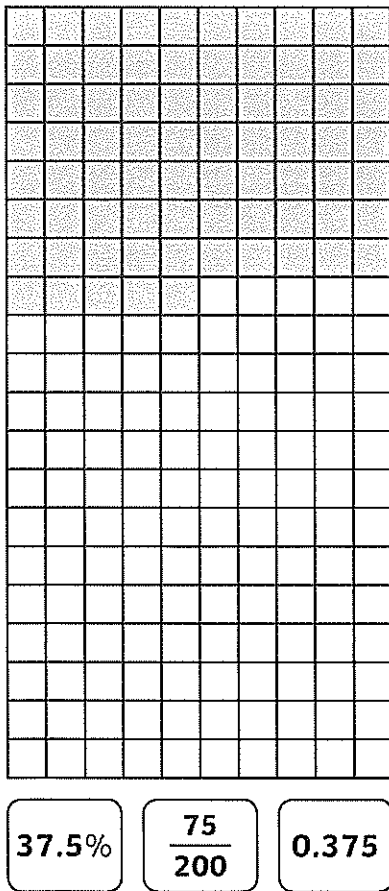
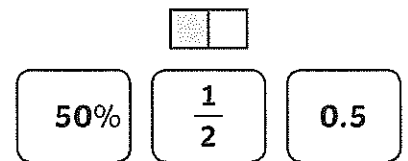
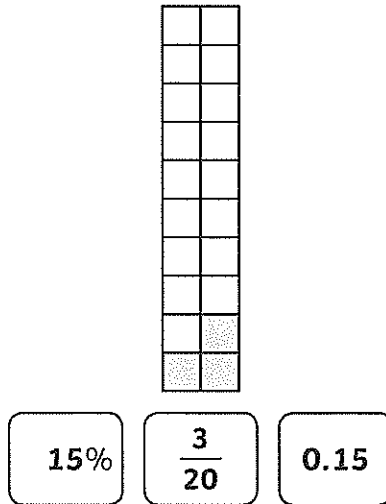
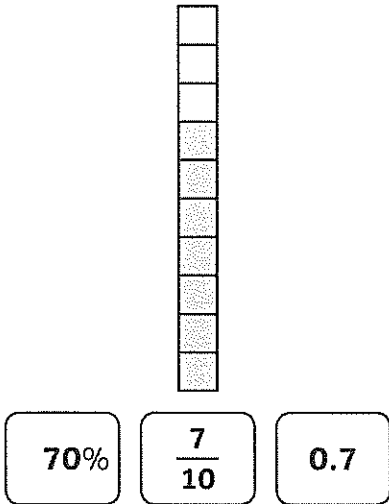
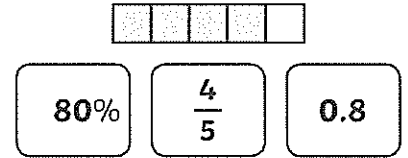
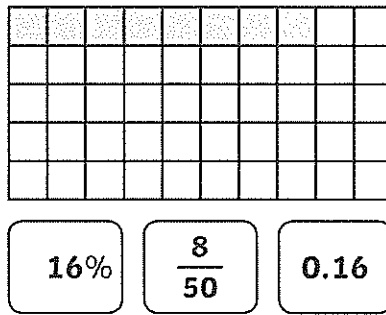
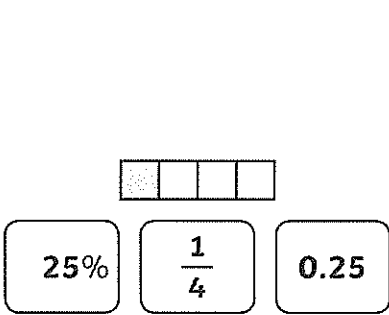
25% $\frac{25}{100}$ 0.25



91% $\frac{91}{100}$ 0.91

Visual Representations of Fractions, Decimals and Percentages **Answers**

Please accept suitable equivalent fractions and simplified decimals.



Answer Sheet: Key Stage 2 Maths Practice Reasoning:

Numbers up to Three Decimal Places



question	answer	notes
1	4.45	
2	4.15	
3	7.75	
4	0.4	
5	0.49	
6	0.665	
7	3.88	
8	4.23	
9	6.49	
10	6.225	
11	0.383	
12	0.358	
13	0.745	
14	5.191	
15	3.495	
16	0.997 + 0.003 = 1	
17	0.008 + 0.992 = 1	
18	0.099 + 0.901 = 1	
19	0.385 + 0.615 = 1	
20	0.831 + 0.169 = 1	
21	0.171	
22	0.256	
23	0.073	
24	0.015	
25	0.204	
26		

question	answer	notes
27	$\begin{array}{c} 2 \\ 0.87 \quad 1.13 \\ 0.36 \quad 0.51 \quad 0.62 \end{array}$	
28	$\begin{array}{c} 0.3 \\ 0.13 \quad 0.17 \\ 0.05 \quad 0.08 \quad 0.09 \end{array}$	
29	$\begin{array}{c} 1.6 \\ 0.638 \quad 0.962 \\ 0.146 \quad 0.492 \quad 0.47 \end{array}$	
30	$\begin{array}{c} 0.2 \\ 0.082 \quad 0.118 \\ 0.049 \quad 0.033 \quad 0.085 \end{array}$	

Answer Sheet: Key Stage 2 Maths Practice Reasoning: Percentage and Decimal Equivalents



question	answer	notes
1	Fraction: $\frac{2}{5}$ Percentage: 40%	
2	Fraction: $\frac{7}{10}$ Percentage: 70%	
3	Fraction: $\frac{13}{20}$ Percentage: 65%	
4	Fraction: $\frac{21}{25}$ Percentage: 84%	
5	Fraction: $\frac{4}{5}$ Percentage: 80%	
6	Fraction: $\frac{1}{5}$ Percentage: 20%	
7	Fraction: $\frac{7}{20}$ Percentage: 35%	
8	Fraction: $\frac{9}{25}$ Percentage: 36%	
9	a = 5 b = 12 c = 4 Order = C, A, B	
10	a = 28 b = 24 c = 26 Order = B, C, A	
11	a = 5 b = 8 c = 4 Order = C, A, B	
12	a = 3 b = 6 c = 4 Order = A, C, B	
13	a = 6 b = 7 c = 8 Order = A, B, C	
14	a = 24 b = 25 c = 21 Order = C, A, B	
15	a = 36 b = 35 c = 33 Order = C, B, A	

question	answer	notes																																				
16	a = 45 b = 42 4 = 48 Order = B, A, C																																					
	<table border="1"> <thead> <tr> <th></th> <th>Fraction</th> <th>Decimal Fraction</th> <th>Percentage</th> </tr> </thead> <tbody> <tr> <td>17.</td> <td>$\frac{2}{5}$</td> <td>0.40</td> <td>40%</td> </tr> <tr> <td>18.</td> <td>$\frac{1}{2}$</td> <td>0.50</td> <td>50%</td> </tr> <tr> <td>19.</td> <td>$\frac{1}{4}$</td> <td>0.25</td> <td>25%</td> </tr> <tr> <td>20.</td> <td>$\frac{4}{5}$</td> <td>0.80</td> <td>80%</td> </tr> <tr> <td>21.</td> <td>$\frac{3}{10}$</td> <td>0.30</td> <td>30%</td> </tr> <tr> <td>22.</td> <td>$\frac{1}{5}$</td> <td>0.20</td> <td>20%</td> </tr> <tr> <td>23.</td> <td>$\frac{3}{4}$</td> <td>0.75</td> <td>75%</td> </tr> <tr> <td>24.</td> <td>$\frac{7}{25}$</td> <td>0.28</td> <td>28%</td> </tr> </tbody> </table>		Fraction	Decimal Fraction	Percentage	17.	$\frac{2}{5}$	0.40	40%	18.	$\frac{1}{2}$	0.50	50%	19.	$\frac{1}{4}$	0.25	25%	20.	$\frac{4}{5}$	0.80	80%	21.	$\frac{3}{10}$	0.30	30%	22.	$\frac{1}{5}$	0.20	20%	23.	$\frac{3}{4}$	0.75	75%	24.	$\frac{7}{25}$	0.28	28%	
	Fraction	Decimal Fraction	Percentage																																			
17.	$\frac{2}{5}$	0.40	40%																																			
18.	$\frac{1}{2}$	0.50	50%																																			
19.	$\frac{1}{4}$	0.25	25%																																			
20.	$\frac{4}{5}$	0.80	80%																																			
21.	$\frac{3}{10}$	0.30	30%																																			
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23.	$\frac{3}{4}$	0.75	75%																																			
24.	$\frac{7}{25}$	0.28	28%																																			
25	4 squares shaded																																					
26	4 squares shaded																																					
27	3 squares shaded																																					
28	23 squares shaded																																					
29	6 squares shaded																																					
30	3 squares shaded																																					

Find the Equivalent Fractions Answers

Fill in the numerator to make the fractions equivalent.

Question	Answer	Question	Answer
1	2	13	8
2	2	14	10
3	2	15	38
4	2	16	12
5	6	17	10
6	2	18	4
7	2	19	6
8	4	20	8
9	6	21	10
10	4	22	14
11	14	23	36
12	6	24	22

Find the Equivalent Fractions Answers

Complete the following fractions to make the fractions equivalent.

Question	Answer
1	4
2	5
3	16
4	5
5	8
6	8
7	1
8	16
9	1
10	6
11	20
12	4

Question	Answer
13	5
14	1
15	6
16	2
17	4
18	10
19	6
20	10
21	5
22	2
23	1
24	6

Find the Equivalent Fractions Answers

Fill in the numerator to make the fractions equivalent.

Question	Answer			
1	$\frac{2}{4}$	$\frac{3}{6}$	$\frac{4}{8}$	$\frac{5}{10}$
2	$\frac{2}{6}$	$\frac{3}{9}$	$\frac{4}{12}$	$\frac{5}{15}$
3	$\frac{6}{8}$	$\frac{9}{12}$	$\frac{12}{16}$	$\frac{15}{20}$
4	$\frac{8}{10}$	$\frac{12}{15}$	$\frac{16}{20}$	$\frac{20}{25}$
5	$\frac{4}{6}$	$\frac{6}{9}$	$\frac{8}{12}$	$\frac{10}{15}$
6	$\frac{10}{12}$	$\frac{15}{18}$	$\frac{20}{24}$	$\frac{25}{30}$
7	$\frac{6}{20}$	$\frac{9}{30}$	$\frac{12}{40}$	$\frac{15}{50}$
8	$\frac{14}{16}$	$\frac{21}{24}$	$\frac{28}{32}$	$\frac{35}{40}$
9	$\frac{2}{12}$	$\frac{3}{18}$	$\frac{4}{24}$	$\frac{5}{30}$
10	$\frac{22}{24}$	$\frac{33}{36}$	$\frac{44}{48}$	$\frac{55}{60}$
11	$\frac{2}{10}$	$\frac{3}{15}$	$\frac{4}{20}$	$\frac{5}{25}$
12	$\frac{2}{8}$	$\frac{3}{12}$	$\frac{4}{16}$	$\frac{5}{20}$
13	$\frac{10}{24}$	$\frac{15}{36}$	$\frac{20}{48}$	$\frac{25}{60}$
14	$\frac{2}{20}$	$\frac{3}{30}$	$\frac{4}{40}$	$\frac{5}{50}$
15	$\frac{4}{10}$	$\frac{6}{15}$	$\frac{8}{20}$	$\frac{10}{25}$
16	$\frac{2}{16}$	$\frac{3}{24}$	$\frac{4}{32}$	$\frac{5}{40}$

Improper Fractions **Answers**

1) Ring or write down any mixed number that is equivalent to the improper fraction.

$\frac{13}{3}$	$2\frac{2}{3}$	$4\frac{1}{3}$	$5\frac{1}{3}$	$4\frac{2}{3}$	$2\frac{2}{3}$
$\frac{14}{4}$	$3\frac{2}{4}$	$4\frac{1}{2}$	$3\frac{1}{2}$	$4\frac{1}{4}$	$2\frac{1}{2}$
$\frac{16}{10}$	$1\frac{4}{10}$	$1\frac{2}{5}$	$1\frac{3}{5}$	$1\frac{6}{10}$	$1\frac{8}{10}$
$\frac{20}{6}$	$2\frac{2}{3}$	$3\frac{2}{6}$	$3\frac{2}{3}$	$2\frac{1}{3}$	$3\frac{1}{3}$
$\frac{19}{5}$	$4\frac{1}{5}$	$4\frac{2}{5}$	$3\frac{4}{5}$	$3\frac{3}{5}$	$5\frac{1}{5}$

2) Write the following improper fractions as mixed numbers.

a) $\frac{22}{3} = 7\frac{1}{3}$

f) $\frac{14}{5} = 2\frac{4}{5}$

k) $\frac{23}{10} = 2\frac{3}{10}$

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

g) $\frac{16}{3} = 5\frac{1}{3}$

l) $\frac{19}{4} = 4\frac{3}{4}$

c) $\frac{21}{6} = 3\frac{1}{2}$ or $3\frac{3}{6}$

h) $\frac{17}{8} = 2\frac{1}{8}$

m) $\frac{19}{7} = 2\frac{5}{7}$

d) $\frac{34}{10} = 3\frac{4}{10}$ or $3\frac{2}{5}$

i) $\frac{22}{9} = 2\frac{4}{9}$

n) $\frac{21}{5} = 4\frac{1}{5}$

e) $\frac{31}{4} = 7\frac{3}{4}$

j) $\frac{27}{12} = 2\frac{3}{12}$

o) $\frac{30}{6} = 5$

3) Answer these questions, writing your answer as mixed numbers.

a) 27 children sit at tables of 6, filling all the tables where possible. Express how the tables are filled using a mixed number. $4\frac{3}{6}$ or $4\frac{1}{2}$

b) A teacher asks 2 children to sort 73 tennis balls into baskets of 10 balls, filling the baskets where possible. Express how the baskets are filled using a mixed number.

$7\frac{3}{10}$

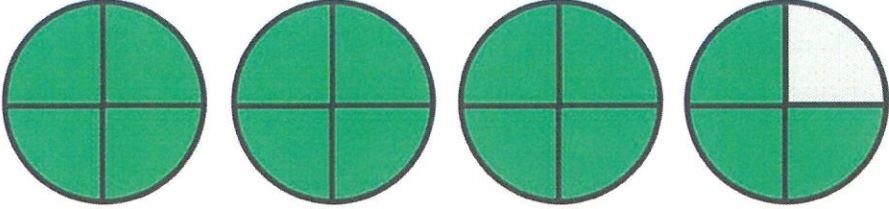
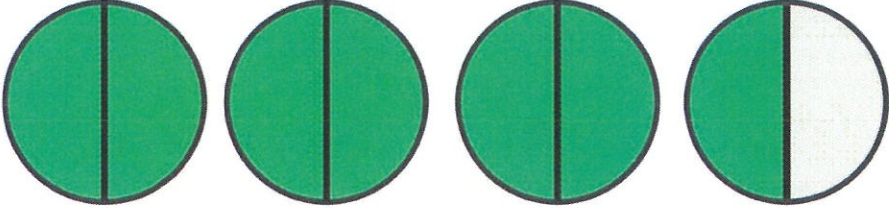
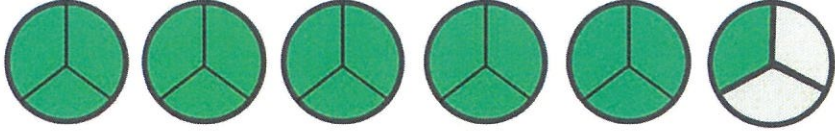
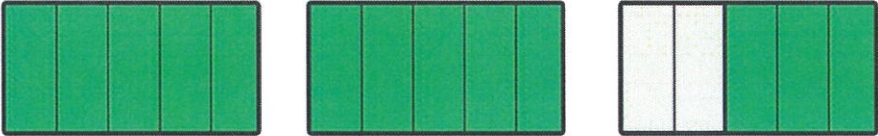
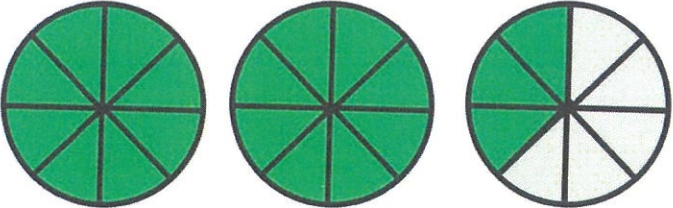
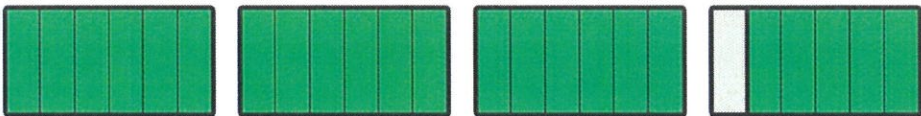
c) A pizza van sells pizza slices. Each slice is one quarter of a pizza. At the end of the day the pizza seller works out how many pizzas he has left. On one day he has 9 pieces. How many pizzas does he have left?

$2\frac{1}{4}$

d) Write some of your own questions for which the answer is a mixed number.

Improper Fractions

3) Write the improper fractions and mixed numbers represented by the shapes below.

	Improper Fraction		Mixed Number
a)	$\frac{15}{4}$		$3\frac{3}{4}$
b)	$\frac{7}{2}$		$3\frac{1}{2}$
c)	$\frac{16}{3}$		$5\frac{1}{3}$
d)	$\frac{13}{5}$		$2\frac{3}{5}$
e)	$\frac{19}{8}$		$2\frac{3}{8}$
f)	$\frac{23}{6}$		$3\frac{5}{6}$

Add Fractions with Denominators That Are Multiples **Answers**

Aim: I can add fractions with denominators that are multiples.

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

$$\frac{1}{10} + \frac{4}{5} = \frac{9}{10}$$

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

$$\frac{1}{5} + \frac{7}{10} = \frac{9}{10}$$

$$\frac{1}{4} + \frac{3}{8} = \frac{5}{8}$$

$$\frac{5}{7} + \frac{3}{14} = \frac{13}{14}$$

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

$$\frac{1}{14} + \frac{6}{7} = \frac{13}{14}$$

$$\frac{1}{8} + \frac{1}{2} = \frac{5}{8}$$

$$\frac{2}{7} + \frac{5}{14} = \frac{9}{14}$$

$$\frac{1}{4} + \frac{5}{8} = \frac{7}{8}$$

$$\frac{3}{8} + \frac{1}{16} = \frac{7}{16}$$

$$\frac{1}{2} + \frac{3}{8} = \frac{7}{8}$$

$$\frac{5}{16} + \frac{5}{8} = \frac{15}{16}$$

$$\frac{5}{6} + \frac{1}{12} = \frac{11}{12}$$

$$\frac{2}{9} + \frac{5}{18} = \frac{1}{2}$$

$$\frac{5}{12} + \frac{1}{6} = \frac{7}{12}$$

$$\frac{3}{10} + \frac{7}{20} = \frac{13}{20}$$

$$\frac{2}{5} + \frac{3}{10} = \frac{7}{10}$$

$$\frac{3}{20} + \frac{7}{10} = \frac{17}{20}$$

Add Fractions with Denominators That Are Multiples **Answers**

Aim: I can add fractions with denominators that are multiples.

$$\frac{11}{12} + \frac{1}{4} = 1 \frac{1}{6}$$

$$\frac{9}{10} + \frac{4}{5} = 1 \frac{7}{10}$$

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

$$\frac{1}{12} + \frac{1}{3} = \frac{5}{12}$$

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

$$\frac{5}{6} + \frac{7}{12} = 1 \frac{5}{12}$$

$$\frac{7}{8} + \frac{1}{4} = 1 \frac{1}{8}$$

$$\frac{2}{3} + \frac{5}{12} = 1 \frac{1}{12}$$

$$\frac{5}{8} + \frac{1}{2} = 1 \frac{1}{8}$$

$$\frac{3}{4} + \frac{1}{12} = \frac{5}{6}$$

$$\frac{5}{6} + \frac{1}{3} = 1 \frac{1}{6}$$

$$\frac{11}{12} + \frac{1}{4} = 1 \frac{1}{6}$$

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

$$\frac{5}{6} + \frac{7}{12} = 1 \frac{5}{12}$$

$$\frac{1}{2} + \frac{7}{8} = 1 \frac{3}{8}$$

$$\frac{11}{12} + \frac{1}{6} = 1 \frac{1}{12}$$

$$\frac{3}{5} + \frac{3}{10} = \frac{9}{10}$$

$$\frac{7}{8} + \frac{5}{16} = 1 \frac{3}{16}$$

$$\frac{7}{10} + \frac{2}{5} = 1 \frac{1}{10}$$

$$\frac{11}{16} + \frac{3}{8} = 1 \frac{1}{16}$$

Add Fractions with Denominators That Are Multiples **Answers**

Aim: I can add fractions with denominators that are multiples.

$$\frac{1}{2} + \frac{1}{4} + \frac{1}{8} = \boxed{\frac{7}{8}}$$

$$\frac{7}{8} + \frac{3}{4} + \frac{3}{16} = \boxed{1 \frac{13}{16}}$$

$$\frac{1}{6} + \frac{1}{3} + \frac{5}{12} = \boxed{\frac{11}{12}}$$

$$\frac{1}{2} + \frac{5}{8} + \frac{1}{16} = \boxed{1 \frac{3}{16}}$$

$$\frac{1}{4} + \frac{5}{8} + \frac{1}{2} = \boxed{1 \frac{3}{8}}$$

$$\frac{5}{6} + \frac{1}{2} + \frac{7}{12} = \boxed{1 \frac{11}{12}}$$

$$\frac{5}{6} + \frac{1}{12} + \frac{1}{2} = \boxed{1 \frac{5}{12}}$$

$$\frac{3}{8} + \frac{3}{4} + \frac{7}{8} = \boxed{2}$$

$$\frac{1}{4} + \frac{1}{8} + \frac{1}{16} = \boxed{\frac{7}{16}}$$

$$\frac{2}{3} + \frac{7}{9} + \frac{2}{3} = \boxed{2 \frac{1}{9}}$$

$$\frac{11}{12} + \frac{5}{6} + \frac{1}{2} = \boxed{2 \frac{1}{4}}$$

$$\frac{4}{5} + \frac{9}{20} + \frac{3}{10} = \boxed{1 \frac{11}{20}}$$

$$\frac{5}{8} + \frac{7}{16} + \frac{3}{4} = \boxed{1 \frac{13}{16}}$$

$$\frac{11}{20} + \frac{3}{5} + \frac{9}{10} = \boxed{2 \frac{1}{20}}$$

$$\frac{3}{4} + \frac{1}{2} + \frac{5}{8} = \boxed{1 \frac{7}{8}}$$

$$\frac{7}{10} + \frac{1}{5} + \frac{23}{30} = \boxed{1 \frac{2}{3}}$$

$$\frac{7}{8} + \frac{3}{16} + \frac{1}{2} = \boxed{1 \frac{9}{16}}$$

$$\frac{5}{6} + \frac{11}{24} + \frac{5}{12} = \boxed{1 \frac{17}{24}}$$

$$\frac{1}{16} + \frac{5}{8} + \frac{7}{8} = \boxed{1 \frac{9}{16}}$$

$$\frac{23}{24} + \frac{11}{12} + \frac{2}{3} = \boxed{2 \frac{13}{24}}$$