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MATH

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PRIMARY  
FIRST TERM

# Model 1

**Q1: Choose the correct answer:**

- The smallest like denominator for the fractions  $\frac{1}{3}$  and  $\frac{3}{4}$  is .....  
(7 or 9 or 8 or 12)
- The opposite model represents the following operation:  

x	x			
x	x	x		

  
 (  $\frac{8}{10} - \frac{3}{10}$  or  $\frac{4}{5} - \frac{1}{2}$  or  $\frac{4}{5} - \frac{3}{10}$  or  $\frac{3}{10} - \frac{1}{2}$  )
- 2 hours and a half = ..... minutes. (150 or 140 or 135 or 120)

**Q2: Essay questions:**

- Write the operation represented in the opposite model then find the answer:



- Find three equivalent fractions for  $\frac{2}{7} = \dots = \dots = \dots$
- Find the value of the numerical expression by rewriting the fractions using a common denominator:  $\frac{1}{3} + \frac{1}{2} = \dots$
- Find the difference of each of the following in the simplest form:  
 $5 \frac{3}{5} - 2 \frac{2}{5} = \dots$
- Ezz walked  $5 \frac{2}{3}$  km on Thursday and  $2 \frac{4}{12}$  km on Friday. How many kilometers did he walk in total over the two days?

- Find the difference of each of the following in the simplest form:  
 $3 - 2 \frac{1}{7} = \dots$
- Find the unknown number and write it in the simplest form:  
 $7 \frac{6}{10} - c = 4 \frac{9}{20}$  then  $c = \dots$

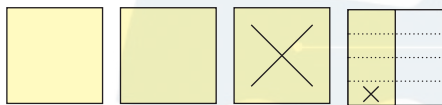
# Model 2

**Q1: Choose the correct answer:**

- $3 \frac{1}{6} - 2 \frac{3}{6} = \dots\dots\dots$  ( $\frac{4}{6}$  or  $5 \frac{2}{6}$  or  $1 \frac{4}{6}$  or  $1 \frac{2}{6}$ )
- The LCM of 4 and 6 is  $\dots\dots\dots$ . (16 or 18 or 12 or 24)
- A year and a fourth =  $\dots\dots\dots$  months. (12 or 16 or 15 or 12 or)

**Q2: Essay question:**

1. Write the operation represented in the opposite model the find the answer:



2. Find three equivalent fractions for  $\frac{2}{3} = \dots\dots\dots = \dots\dots\dots = \dots\dots\dots$

3. Find the difference in the simplest form:  $5 \frac{1}{3} - 2 \frac{4}{5} = \dots\dots\dots$

4. Rewrite the mixed number in two different ways:  $4 \frac{3}{5}$   
 $= \dots\dots\dots = \dots\dots\dots$

5. Find the sum in the simplest form:  $5 \frac{7}{9} + 2 \frac{2}{3} = \dots\dots\dots$

6. Mohammed walked  $\frac{1}{4}$  hours on Wednesday and  $2 \frac{3}{8}$  hours on Thursday. What is the total time he walked over the two days?

.....

.....

7. Find the value of the numerical expression by rewriting the fractions using a common denominator:  $\frac{2}{3} + \frac{2}{5} = \dots\dots\dots$

# Model

3

**Q1: Choose the correct answer:**

- The smallest like denominator of  $\frac{8}{12}$  and  $\frac{5}{10}$  is .....  
(24 or 30 or 36 or 60)
- $4 \frac{5}{7} =$  .....  
( $\frac{45}{7}$  or  $\frac{28}{7}$  or  $2 \frac{7}{7}$  or  $3 \frac{12}{7}$ )
- 130 minutes = ..... hours.  
( $2 \frac{1}{6}$  or  $2 \frac{1}{2}$  or  $2 \frac{1}{4}$  or  $2 \frac{1}{3}$ )

**Q2: Essay questions:**

- Write the operation represented in the opposite number-line then find the answer:



- In a field  $\frac{7}{9}$  of chamomile crop is used to make soap. The remainder part is used for making perfumes. Find the fraction of the crop used for making perfumes.

- Find the value of the numerical expression by rewriting the fractions using a common denominator:  $\frac{2}{3} + \frac{1}{4} =$  .....

- Write the two fractions  $\frac{4}{7}$  and  $\frac{1}{2}$  with common denominator:  
..... , .....

- Find three equivalent fractions for  $\frac{3}{8}$ :  
..... = ..... = .....

- Find the difference of each of the following in the simplest form:

$$5 \frac{3}{7} - 2 \frac{2}{3} = \dots\dots\dots$$

- Rewrite the mixed number in two different ways:  $4 \frac{5}{7}$   
= ..... = .....

## Model

4

Q1: Choose the correct answer:

1.  $3 \frac{3}{4} = \dots\dots\dots$  ( $\frac{8}{4}$  or  $2 \frac{7}{4}$  or  $4 \frac{1}{4}$  or  $\frac{10}{4}$ )

2.  $4 \frac{8}{9} + \frac{1}{3} = \dots\dots\dots + \frac{2}{9}$  ( $5 \frac{2}{3}$  or 5 or 4 or 3)

3. A year and 3 months =  $\dots\dots\dots$  years. ( $1 \frac{1}{12}$  or  $1 \frac{1}{2}$  or  $1 \frac{1}{3}$  or  $1 \frac{1}{4}$ )

Q2: Essay questions

1. Write the operation represented in the opposite model then find the answer:



2. Find three equivalent fractions for  $\frac{5}{9} = \dots\dots\dots = \dots\dots\dots = \dots\dots\dots$

3. Sameh bought  $\frac{1}{3}$  kilogram of flour, and  $\frac{1}{4}$  kilogram of sugar. What is the total mass of what Sameh bought?

4. Find the value of the numerical expression by rewriting the fractions

using a common denominator:  $\frac{5}{6} - \frac{5}{9} = \dots\dots\dots$

5. Find the sum of each of the following in the simplest form:

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

6. Find the unknown number and write it in the simplest form:

$G - 1 \frac{3}{4} = 7 \frac{3}{12}$ , then  $G = \dots\dots\dots$

7. Find the sum in the simplest form:  $4 \frac{3}{4} + 9 \frac{5}{10} = \dots\dots\dots$

# Model

5

**Q1: Choose the correct answer:**

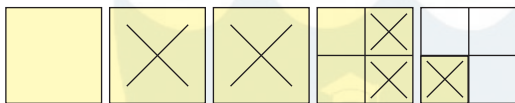
1.  $\frac{1}{3} + \dots = \frac{1}{2}$  ( $\frac{1}{6}$  or  $\frac{1}{2}$  or  $\frac{1}{3}$  or  $\frac{2}{3}$ )

2.  $8 \frac{1}{2} = 8 \frac{\dots}{6}$  (4 or 8 or 2 or 3)

3.  $3 \frac{4}{6}$  and  $2 \frac{2}{4}$  using the smallest like denominator are  $\dots$ ,  $\dots$   
( $3 \frac{4}{6}$ ,  $2 \frac{2}{6}$  or  $3 \frac{4}{6}$ ,  $2 \frac{3}{6}$  or  $3 \frac{3}{4}$ ,  $2 \frac{2}{4}$  or  $3 \frac{2}{3}$ ,  $2 \frac{1}{2}$ )

**Q2: Essay questions**

1. Write the operation represented in the opposite model then find the answer:



2. Find  $(4 \frac{1}{5})$  in 3 other forms:  $4 \frac{1}{5} = \dots = \dots = \dots$

3. Find the difference of each of the following in the simplest form:

$6 \frac{1}{3} - 3 \frac{4}{5} = \dots$

4. Mohammed walked  $1 \frac{1}{3}$  hours on Wednesday and  $1 \frac{3}{4}$  hours on Thursday. What is the total time he walked over the two days?

5. If  $\frac{1}{2} + d = \frac{3}{5}$ , then  $d = \dots$

Find the value of the unknown.

6. Find the sum in the simplest form:  $3 \frac{1}{5} + 2 \frac{1}{3} = \dots$

7. Find the difference of each of the following in the simplest form:

$3 - 2 \frac{1}{7} = \dots$

## Model Answers

### Model 1

1. 1.12    2.  $\frac{4}{5} - \frac{1}{2}$     3. 150

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

2.  $\frac{2}{7} = \frac{4}{14} = \frac{6}{21} = \frac{8}{28}$

3.  $\frac{1}{3} + \frac{1}{4} = \frac{3}{12} + \frac{4}{12} = \frac{7}{12}$

4.  $3\frac{1}{5}$

5. Number of kilometers =  $5\frac{2}{3} + 2\frac{4}{12}$   
 $= 5\frac{8}{12} + 2\frac{4}{12} = 7\frac{12}{12} = 8$  kilometers.

6.  $3 - 2\frac{1}{7} = 2\frac{7}{7} - 2\frac{1}{7} = \frac{6}{7}$

7.  $7\frac{6}{10} - c = 4\frac{9}{20}$  then  $c = 7\frac{6}{10} - 4\frac{9}{20}$   
 $= 7\frac{12}{20} - 4\frac{9}{20} = 3\frac{3}{20}$

### Model 2

1.  $\frac{4}{6}$     2. 12    3. 15

2.  $1. 3\frac{1}{2} - 1\frac{1}{10} = 3\frac{5}{10} - 1\frac{1}{10} = 2\frac{4}{10}$

2.  $\frac{2}{3} = \frac{4}{6} = \frac{6}{9} = \frac{8}{12}$

3.  $5\frac{1}{3} - 2\frac{4}{5} = 5\frac{5}{15} - 2\frac{12}{15} = 4\frac{20}{15} - 2\frac{12}{15}$   
 $= 2\frac{8}{15}$

4.  $4\frac{3}{5} = 3\frac{8}{5} = 2\frac{13}{5}$

5.  $5\frac{7}{9} + 2\frac{2}{3} = 5\frac{7}{9} + 2\frac{6}{9} = 7\frac{13}{9} = 8\frac{4}{9}$

6. Total =  $\frac{1}{4} + 2\frac{3}{8} = \frac{2}{8} + 2\frac{3}{8} = 2\frac{5}{8}$  hours.

7.  $\frac{2}{3} + \frac{2}{5} = \frac{10}{15} + \frac{6}{15} = \frac{16}{15} = 1\frac{1}{15}$

### Model 3

1. 60    2.  $3\frac{12}{7}$     3.  $2\frac{1}{6}$

2.  $1. 4\frac{1}{3} - 3\frac{1}{4} = 4\frac{4}{12} - 3\frac{3}{12} = 1\frac{1}{12}$

2. The fraction of the crop used for making

perfumes =  $1 - \frac{7}{9} = \frac{9}{9} - \frac{7}{9} = \frac{2}{9}$  of chamomile crop.

3.  $\frac{2}{3} + \frac{1}{4} = \frac{8}{12} + \frac{3}{12} = \frac{11}{12}$

4.  $\frac{8}{14}, \frac{7}{14}$

5.  $\frac{3}{8} = \frac{6}{16} = \frac{9}{24} = \frac{12}{32}$

6.  $5\frac{3}{5} - 2\frac{2}{5} = 3\frac{1}{5}$

7.  $4\frac{5}{7} = 3\frac{12}{7} = 2\frac{19}{7}$

### Model 4

1.  $1. 2\frac{7}{4}$     2. 5    3.  $1\frac{1}{4}$

2.  $1. 2\frac{3}{5} + 2\frac{1}{2} = 2\frac{6}{10} + 2\frac{5}{10} = 4\frac{11}{10} = 5\frac{1}{10}$

2.  $\frac{5}{9} = \frac{10}{18} = \frac{15}{27} = \frac{20}{36}$

3. Total mass =  $\frac{1}{3} + \frac{1}{4} = \frac{4}{12} + \frac{3}{12} = \frac{7}{12}$  kilogram.

4.  $\frac{5}{6} - \frac{5}{9} = \frac{15}{18} - \frac{10}{18} = \frac{5}{18}$

5.  $4\frac{2}{3} + 2\frac{3}{4} = 4\frac{8}{12} + 2\frac{9}{12} = 6\frac{17}{12} = 7\frac{5}{12}$

6. Find the unknown number and write it in the simplest form:

$G - 1\frac{3}{4} = 7\frac{3}{12}$  then  $G = 1\frac{3}{4} + 7\frac{3}{12} = 1$

$\frac{9}{12} + 7\frac{3}{12} = 8\frac{12}{12} = 9$

7.  $4\frac{3}{4} + 9\frac{5}{10} = 4\frac{15}{20} + 9\frac{10}{20} = 13\frac{25}{20} = 14\frac{5}{20} = 14\frac{1}{4}$

### Model 5

1.  $\frac{1}{6}$     2. 3    3.  $3\frac{4}{6}, 2\frac{3}{6}$

2.  $1. 4\frac{1}{4} - 2\frac{3}{4} = 1\frac{2}{4}$

2.  $4\frac{1}{5} = 3\frac{6}{5} = 2\frac{11}{5} = 1\frac{16}{5}$

$$3. 6 \frac{1}{3} - 3 \frac{4}{5} = 6 \frac{5}{15} - 3 \frac{12}{15} = 5 \frac{20}{15} - 3 \frac{12}{15} \\ = 2 \frac{8}{15}$$

$$4. \text{Total time he walked} = 1 \frac{1}{3} + 1 \frac{3}{4} \\ = 1 \frac{4}{12} + 1 \frac{9}{12} = 2 \frac{13}{12} = 3 \frac{1}{12} \text{ hours.}$$

$$5. d = \frac{3}{5} - \frac{1}{2} = \frac{6}{10} - \frac{5}{10} = \frac{1}{10}$$

$$6. 3 \frac{1}{5} + 2 \frac{1}{3} = 3 \frac{3}{15} + 2 \frac{5}{15} = 5 \frac{8}{15}$$

$$7. 3 - 2 \frac{1}{7} = 2 \frac{7}{7} - 2 \frac{1}{7} = \frac{6}{7}$$

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