



## Rosary School \ Marj Elhamam

Name: Answer Key  
Subject: Practice worksheet 5/ Unit 4

Date : / 11/ 2025  
Grade : 6 ( )

### Fractions

#### 4.1 working with fractions

Q1. Work out the highest common factor of.

a. 18 and 27

$$\begin{array}{l} 18: 1, 2, 3, 6, 9, 18 \\ 27: 1, 3, 9, 27 \end{array}$$

$$\text{HCF} = \underline{\underline{9}}$$

b. 14 and 21

$$14: 1, 2, 7, 14$$

$$\text{HCF} = \underline{\underline{7}}$$

$$21: 1, 3, 7, 21$$

Q2. Write  $>$ ,  $<$  in the box to make the statement correct.

a.  $\frac{7}{9} \boxed{>} \frac{6}{9}$

b.  $\frac{4}{4 \times 5} \boxed{>} \frac{3 \times 5}{4 \times 5}$

c.  $\frac{11}{12} \boxed{>} \frac{5 \times 2}{6 \times 2}$

Q3. Out of 30 books, 12 are science books.

What fraction of the books are science books?

Write in simplest form.

$$\frac{12 \div 6}{30 \div 6} = \boxed{\frac{2}{5}}$$

Q4. A football team has 22 players. 5 of them are goalkeepers.  
What fraction of the players are **not** goalkeepers?

$$22 - 5 = 17$$

$$\frac{17}{22}$$

#### 4.2 Adding and subtracting fractions

Q1. Work out the lowest common multiple.

a. 6 and 9

$$6: 6, 12, 18, 24, 30, 36$$

$$9: 9, 18, 27, 36$$

$$\text{LCM} = \underline{36}$$

b. 4 and 10

$$4, 8, 12, 16, 20, 24, 28, 32, \textcircled{40}$$

$$10, 20, 30, \textcircled{40}$$

$$\text{LCM} = \underline{40}$$

Q2. Write these improper fractions as mixed numbers.

$$\text{a. } \frac{11}{4} = 2 \frac{3}{4}$$

$$\text{b. } \frac{19}{6} = 3 \frac{1}{6}$$

$$\text{c. } \frac{20}{8} = 2 \frac{4}{8} = 2 \frac{1}{2}$$

Q3. Work out

$$\text{a. } 1 \frac{1}{4} - \frac{3}{8} =$$

$$\text{b. } \frac{2x^2}{5x^2} + \frac{3}{10} =$$

$$\frac{2 \times 5}{2 \times 4} - \frac{3}{8} =$$

$$\frac{4}{10} + \frac{3}{10} = \frac{7}{10}$$

$$\frac{10}{8} - \frac{3}{8} = \frac{7}{8}$$

Q4. A mechanic stacks a plastic panel that is  $9\frac{1}{2}$  cm thick on top of a foam layer that is  $3\frac{3}{4}$  cm thick.

What is the total thickness of the two layers?

$$\begin{aligned}
 & 9\frac{1}{2} + 3\frac{3}{4} \\
 & \frac{2 \times 19}{2} + \frac{15}{4} = \frac{38}{4} + \frac{15}{4} \\
 & = \frac{53}{4} = 13\frac{1}{4} \text{ cm}
 \end{aligned}$$

#### 4.3 Fractions, decimals and percentages.

Q1. Complete the table.

Write each fraction in its simplest form.

Fraction	Decimal	Percentage
$\frac{1 \times 2}{5 \times 2}$	0.2	20%
$\frac{55}{100} = \frac{11}{20}$	0.55	55%
$\frac{42}{100} = \frac{21}{50}$	0.42	42%

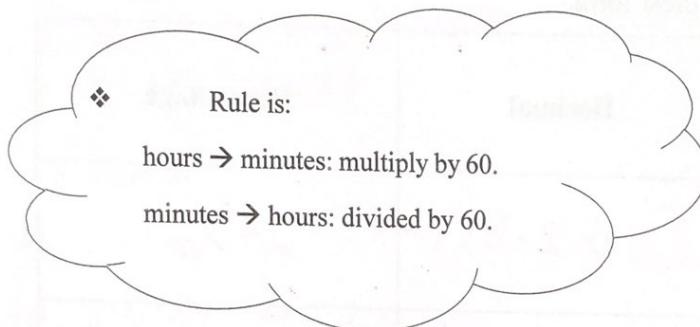
Q2. Write these fractions as decimals.

a.  $\frac{2 \times 5}{20 \times 5} = \frac{10}{100} = 0.10$

c.  $\frac{4 \times 2}{5 \times 2} = \frac{8}{10} = 0.8$

b.  $\frac{3 \times 125}{8 \times 125} = \frac{375}{1000} = 0.375$

d.  $\frac{5 \times 4}{25 \times 4} = \frac{20}{100} = 0.20$



Q3. Draw a ring around the numbers that give the same time intervals.

0.5 hour	$\frac{1}{6}$ hour
$\frac{1}{4}$ hour	30 minutes
25 minutes	0.25 hour

Q4. Write the missing numbers.

$$\text{a. } \frac{4 \times 6}{4 \times 25} = \underline{24} \text{ \%}$$

$$\text{b. } \frac{4 \times 15}{4 \times 25} = \underline{60} \text{ \%}$$

$$\text{c. } \underline{40} \text{ \%} = 0.4$$

#### 4.4 Multiplying by a fraction.

Q1. Work out+

$$\text{a. } \frac{3}{5} \times \underline{45} = \underline{27}$$

$$\text{b. } 4 \times \frac{2}{3} = \frac{8}{3} = 2 \frac{2}{3}$$

$$\text{c. } \underline{16} \times \frac{5}{8} = \underline{10}$$

$$\text{d. } 5 \times \frac{4}{7} = \frac{20}{7} = 2 \frac{6}{7}$$

Q2. A recipe uses  $\frac{3}{4}$  cup of milk. Sara makes 3 batches.

How much milk does she need?

$$3 \times \frac{3}{4} = \frac{9}{4} = 2 \frac{1}{4}$$

2  $\frac{1}{4}$  cups

Q3. The garden is 12 m long and 6 m wide.

Hana plants flowers in  $\frac{1}{3}$  of the garden.  
What area is planted?

$$12 \times 6 = 72 \text{ m}^2$$

$$72 \times \frac{1}{3} = 24 \text{ m}^2$$

$$\underline{24} \text{ m}^2$$

Q4. A water tank holds 180 l.

$\frac{1}{5}$  of it is used.

How many liters are used?

$$180 \times \frac{1}{5} = 36$$

$$\underline{36} \text{ l}$$

Q5. A box has 48 kg of rice.  $\frac{3}{4}$  of it is sold.

How much rice was sold?

$$\begin{array}{r} 12 \\ 48 \times \frac{3}{4} = 36 \\ \hline 1 \end{array}$$

$$\underline{36} \text{ kg}$$

#### 4.5 Working with mixed numbers.

Q1. Work out:

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

$$\frac{13}{4} + \frac{5 \times 2}{2 \times 2} =$$

$$\frac{13}{4} + \frac{10}{4} = \frac{23}{4} = 5\frac{3}{4}$$

c.  $4\frac{5}{8} + 3\frac{3}{4} =$

$$\frac{37}{8} + \frac{15 \times 2}{4 \times 2} =$$

$$\frac{37}{8} + \frac{30}{8} =$$

$$\frac{67}{8} = 8\frac{3}{8}$$

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

$$2 \times \frac{20}{3} - \frac{7}{6} =$$

$$\frac{40}{6} - \frac{7}{6} = \frac{33}{6} = 5\frac{3}{6} = 5\frac{1}{2}$$

d.  $7\frac{1}{5} - 2\frac{2}{5} =$

$$\frac{36}{5} - \frac{12}{5} =$$

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

$$4\frac{4}{5}$$

Q2. A pipe is  $12\frac{1}{2}$  m long. A plumber cuts off  $4\frac{3}{4}$  m.

How much is left?

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

$$2 \times \frac{25}{2} - \frac{19}{4} =$$

$$\frac{50}{4} - \frac{19}{4} =$$

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

$$\underline{7\frac{3}{4}} \text{ metres}$$

Q3. Lana jogs  $1\frac{3}{5}$  km each morning. How far in 6 days?

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

$$\frac{8}{5} \times 6 =$$

$$\frac{48}{5} = 9\frac{3}{5}$$

$$\underline{9\frac{3}{5}} \text{ km}$$

Q4. A recipe needs  $1\frac{2}{3}$  cups of oil per cake.

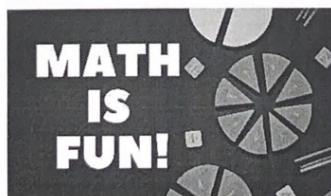
How much oil is needed for 3 cakes?

$$1\frac{2}{3} \times 3 =$$

$$\frac{5}{3} \times 3 =$$

$$\underline{\frac{15}{3}} = 5$$

$$\underline{5} \text{ Cups}$$



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