



## Rosary School \ Marj Elhamam

Name : \_\_\_\_\_

Date :    / 10 / 2025

Subject: Worksheet (4) / unit (4)

Grade : 6 (      )

### Fractions

#### 4.1 working with fractions

**Q1.** Work out the highest common factor of.

a) 24 and 40

HCF = \_\_\_\_\_

b) 7 and 35

HCF = \_\_\_\_\_

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

a.  $\frac{9}{8}$    $\frac{5}{8}$

b.  $\frac{3}{4}$    $\frac{5}{6}$

c.  $\frac{5}{12}$    $\frac{3}{4}$

**Q3.** A shop sells 24 basketball jerseys. 6 of them are Lakers jerseys.

What fraction of the jerseys are Lakers jerseys?

Write your answer in its simplest form.

**Q4.** Out of the 20 most popular tennis players, 4 are from Spain.  
What fraction of the top 20 players are not Spanish?  
Write your answer in its simplest form.

**Q5.** The table shows the number of games won by each player in each set of a match in a tennis tournament.

	Set1	Set2	Set3
Player A	5	3	4
Player B	7	6	5

What fraction of all the games in the match did Player A win?  
Write your answer in its simplest form.

**Q6.**

a. What is  $\frac{5}{6}$  of 42 kg.

\_\_\_\_\_ kg

b. A rectangle is 15 cm long and 8 cm wide.

Layla shades  $\frac{2}{5}$  of the rectangle.

What area of the rectangle does Layla shade?

\_\_\_\_\_  $\text{cm}^2$

## 4.2 Adding and subtracting fractions

**Q1.** Work out the lowest common multiple.

a. 5 and 7

LCM= \_\_\_\_\_

b. 9 and 12

LCM= \_\_\_\_\_

**Q2.** Write these improper fractions as mixed numbers.

a.  $\frac{9}{4} =$

b.  $\frac{16}{7} =$

c.  $\frac{23}{3} =$

**Q3.** Which is larger  $1\frac{3}{4}$  or  $\frac{6}{4}$ ?

**Q4.** Work out

a.  $\frac{1}{3} + \frac{8}{9} =$

b.  $3 - \frac{16}{7} =$

c.  $5\frac{1}{4} - 2\frac{7}{12} =$

**Q5.** A carpenter glues together a strip of plastic that is  $\frac{7}{12}$  cm thick and a strip of rubber that is  $\frac{5}{8}$  cm thick.

What is the total thickness of two strips?

**Q6.** Yousef completed  $\frac{7}{10}$  of his homework. Dana completed  $\frac{3}{4}$  of hers.

Who completed more and by how much?

#### 4.3 fractions, decimals and percentages.

**Q1.** Complete the table.

Write each fraction in its simplest form.

Fraction	Decimal	Percentage
		35%
	1.6	
$\frac{3}{8}$		

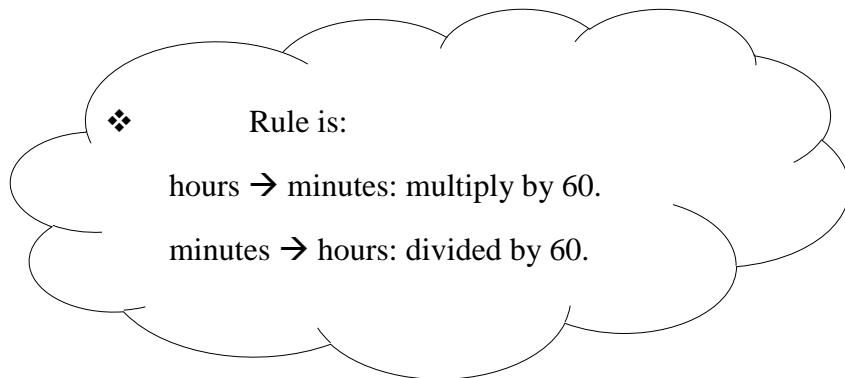
**Q2. Write these fractions as decimals.**

a.  $\frac{3}{20} =$

c.  $\frac{12}{16} =$

b.  $\frac{24}{60} =$

d.  $\frac{13}{5} =$



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

0.25 hour	$\frac{1}{5}$ hour
$\frac{1}{4}$ hour	15 minutes
25 minutes	0.15 hour

**Q5.** Using the fact that  $\frac{1}{4} = 0.25$  to write the following as decimal.

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

2.  $\frac{1}{2} =$

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

**Q6.** Write the missing numbers.

a.  $\frac{8}{50} = \underline{\hspace{2cm}}\%$

b.  $\frac{12}{25} = \underline{\hspace{2cm}}\%$

c.  $\underline{\hspace{2cm}}\% = 0.24$

#### 4.4 multiplying by a fraction.

**Q1.** Work out

a.  $\frac{3}{4} \times 56 =$

b.  $45 \times \frac{1}{9} =$

c.  $14 \times \frac{6}{7} =$

d.  $24 \times \frac{6}{8} =$

**Q2.** A recipe needs  $\frac{2}{3}$  cup of sugar. Maya makes 4 batches.  
How much sugar does she need?

\_\_\_\_\_ cups

**Q3.** A rectangle is 18 cm long and 10 cm wide.

Ali shades  $\frac{2}{5}$  of the rectangle.

Find the area shaded.

\_\_\_\_\_  $\text{cm}^2$

**Q4.** A tank holds 200 litres of water.

$\frac{3}{8}$  leaks out.

How many liters leak out?

\_\_\_\_\_ litres

## 4.5 working with mixed numbers.

**Q1.** Work out

a.  $1 \frac{2}{3} + 2 \frac{1}{6} = \underline{\hspace{2cm}}$

b.  $3 \frac{1}{2} + 4 \frac{2}{4} = \underline{\hspace{2cm}}$

c.  $4 \frac{1}{5} + 2 \frac{7}{10} = \underline{\hspace{2cm}}$

d.  $6 \frac{1}{4} - 2 \frac{7}{12} = \underline{\hspace{2cm}}$

e.  $5 \frac{7}{12} - 2 \frac{1}{4} = \underline{\hspace{2cm}}$

f.  $5 \frac{3}{5} - 2 \frac{4}{5} = \underline{\hspace{2cm}}$

**Q3.** Solve the following problems.

a. A board is  $6 \frac{1}{2}$  metres long. A carpenter cuts off  $2 \frac{3}{4}$  metres.

How much is left?

$\underline{\hspace{2cm}}$  metres

b. Layla walked  $2\frac{1}{2}$  km in the morning and  $3\frac{3}{4}$  km in the evening.

How far did she walk in total?

\_\_\_\_\_ km

c. A runner completes  $1\frac{3}{8}$  km each lap. He runs 5 laps.

What distance does he run?

\_\_\_\_\_ km

d. A recipe uses  $1\frac{1}{4}$  cups of flour per cake. How much flour is needed for 3 cakes?

\_\_\_\_\_ cups



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