



Rosary School \ Marj Elhamam

Name : _____

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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?

_____ cm²

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



Rule is:

hours \rightarrow minutes: multiply by 60.

minutes \rightarrow hours: divided by 60.

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. $\frac{8}{50} =$ _____ %

b. $\frac{12}{25} =$ _____ %

c. _____ % = 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.

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

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

c. $4\frac{1}{5} + 2\frac{7}{10} =$ _____

d. $6\frac{1}{4} - 2\frac{7}{12} =$ _____

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

f. $5\frac{3}{5} - 2\frac{4}{5} =$ _____

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?

_____ 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



Teachers:- Qusie Hijazeen, Eman Nadas