



Rosary School \ Marj Elhamam

Name :

Date : / / 2025

Subject: Practice worksheet (2) / Unit (1)

Grade : 6 ()

Analysing and displaying data

❖ 1.1 Averages and range + 1.2 More averages and range

Q1: Find the mode of each set of data.

a) 4, 6, 7, 6, 8, 9, 6 _____

b) 10, 12, 14, 12, 15, 10 _____

c) 2, 3, 4, 5, 6 _____

d) 20, 18, 22, 20, 18, 25 _____

e) 7, 8, 7, 9, 10, 7, 11 _____

Q2: A class survey shows the favorite pets of students; the following table shows the result.

	frequency
Cat	11
Dog	14
Fish	6
Bird	9

What is the mode pet? _____

Q3: The number of books borrowed in one week is as following:

5, 7, 8, 7, 9, 7, 6

Find the mode.

Q4: A dice was rolled 10 times; the results are shown below:

3, 4, 6, 3, 5, 2, 3, 1, 4, 3

Which number is the mode?

Q5: Find the median of each set of data.

b) 20, 22, 18, 21, 19 median =

c) 11, 13, 15, 17, 19 median =

c) 11, 13, 15, 17, 19 median =

c) 11, 13, 15, 17, 19 median =

d) 2, 4, 6, 8, 10, 12 median =

e) 9, 11, 13, 15, 17, 19, 21 median =

f) 8, 10, 12, 14, 16, 18, 20, 22 median =

Q6: The ages of 9 cousins are:

3, 5, 7, 9, 11, 13, 15, 17, 19

What is the median age? _____

Q7: Five students scores in a math test are as following:

28, 35, 31, 30, 29

What is the median score? _____

Q8: Find the mean of each set of data.

a) 2, 4, 6, 8, 10

mean = _____

b) 12, 14, 16, 18

mean = _____

c) 5, 15, 25, 35, 45

mean = _____

d) 7, 14, 21, 28

mean = _____

e) 3, 6, 9, 12, 15, 18

mean = _____

Q9: A farmer collected eggs for 4 days as following:

12, 15, 14, 19

What is the mean number of eggs collected per day? _____

Q10: Find the range of each set of data.

a) 2, 5, 7, 10, 13

Range = _____

b) 8, 12, 16, 20, 24

Range = _____

c) 4, 9, 11, 15, 6

Range = _____

Q11: Sam recorded the number of apples he ate in 5 days as following:

2, 4, 6, 8, 10

What is the range? _____

Q12: Which of these are discrete and which are continuous?

a) Number of books in a library. _____

b) Weight of a watermelon. _____

c) Number of buses at a station. _____

d) Time taken to finish homework. _____

Q13: The marks of 15 students in a spelling test are recorded as following:

3, 4, 5, 3, 6, 5, 4, 3, 5, 6, 4, 5, 3, 4, 5

Complete the frequency table:

Test mark	Tally	Frequency
3		
4		
5		
6		

What is the mode mark? _____

Q14: The ages of 20 students are:

11, 12, 11, 13, 12, 14, 13, 11, 12, 15, 12, 13, 11, 14, 12, 13, 11, 12, 14, 13

Complete the following grouped frequency table.

Age(year)	Tally	Frequency
11-12		
13-14		
15-16		

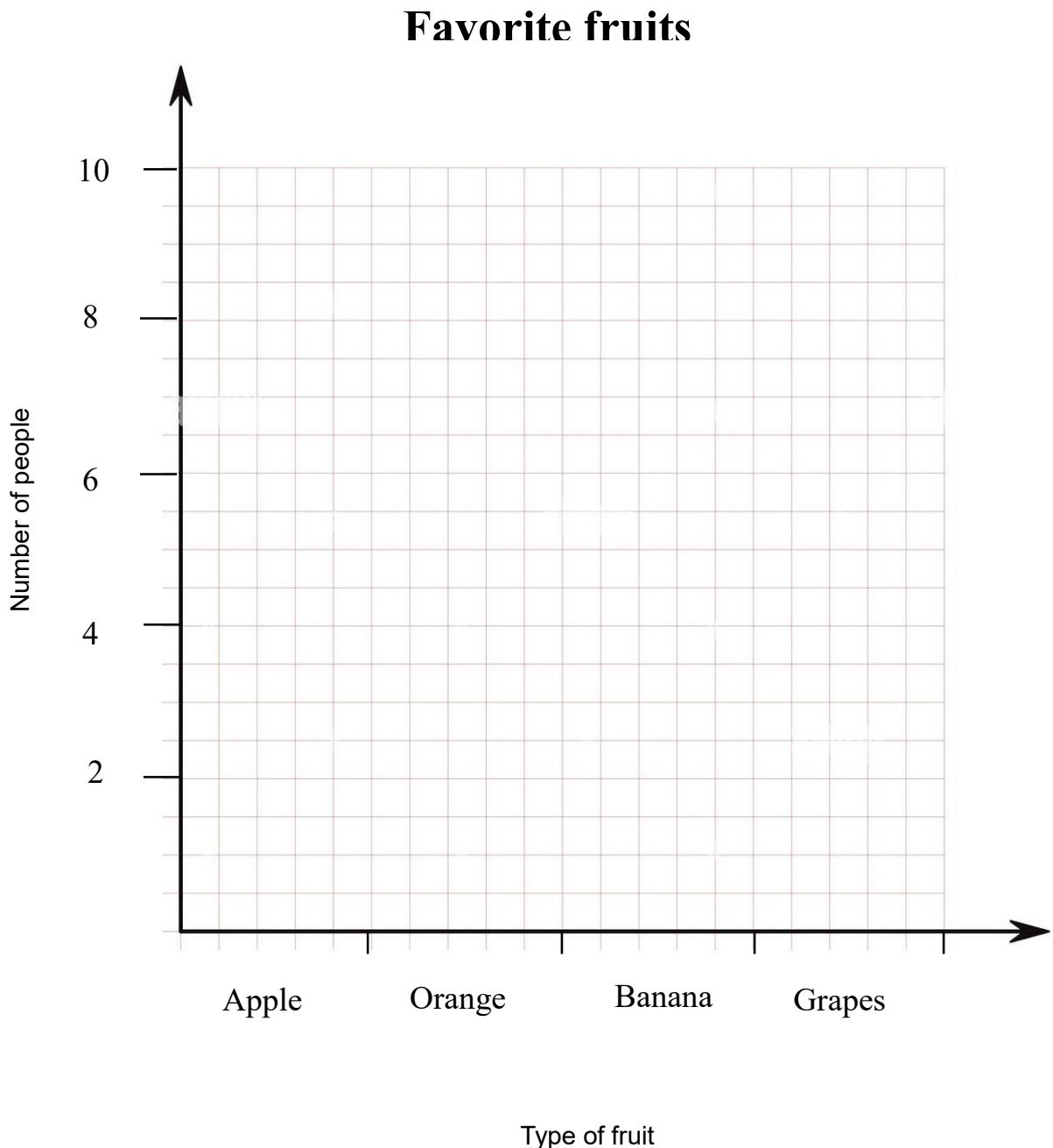
❖ **1.3 Two-way tables and bar charts + 1.4 More graphs and tables 1**

Q1: A survey was conducted about favorite fruits, the following table shows the results

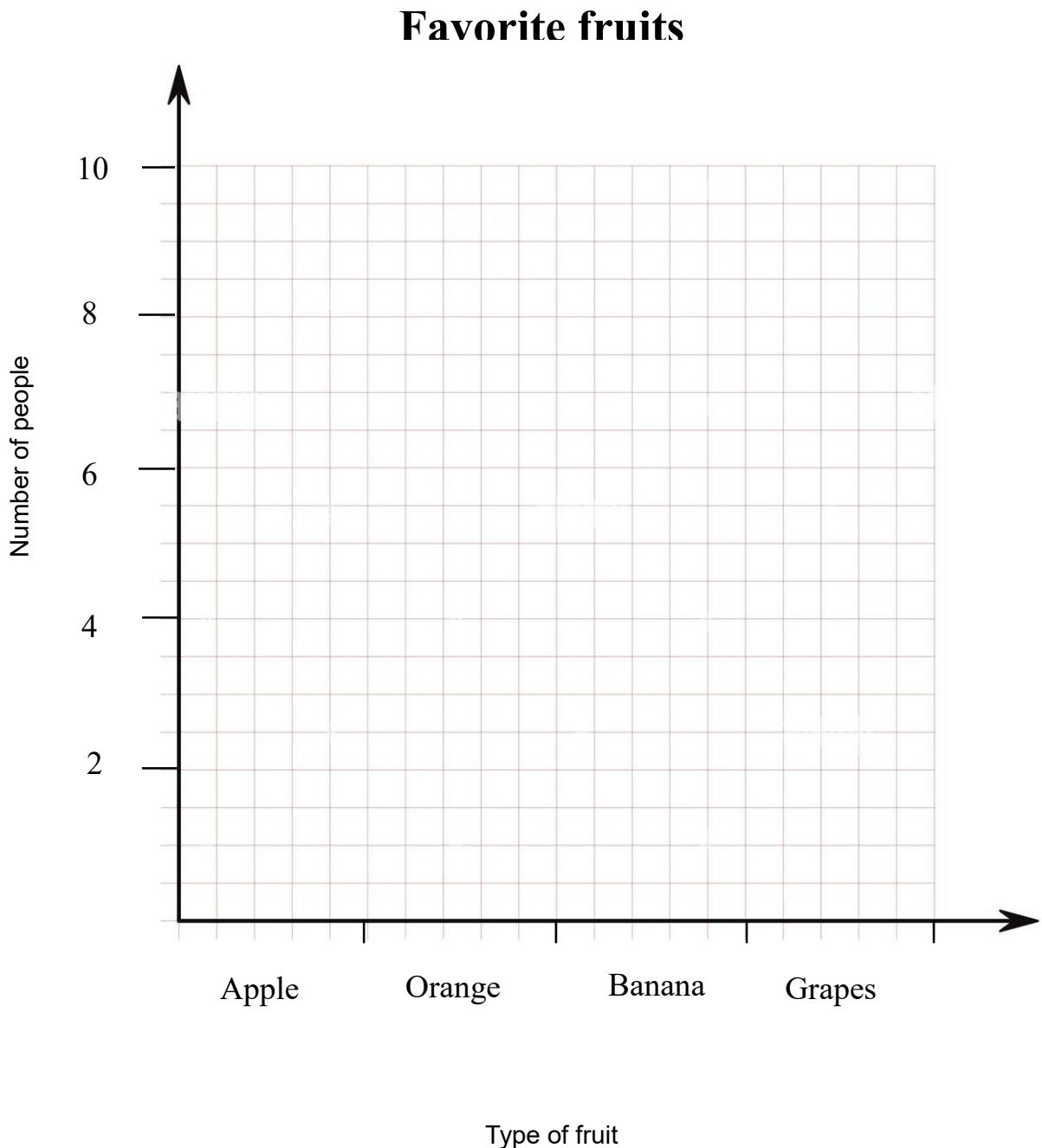
Fruit	Boys	Girls
Apple	7	3
Orange	4	5
banana	3	6
Grapes	2	4

- Draw a dual bar chart to represent the data.
- Draw a compound bar chart to represent the data.

a)



b)



Q2: Students collected old magazines for 4 months

Month	Grade 5	Grade 6
Jan	20	25
Feb	30	35
Mar	25	30
Apr	35	40

a) In which month did Grade 6 collect the most magazines? _____

b) In which month did Grade 5 collect the fewest? _____

c) How many magazines did Grade 6 collect in total? _____

d) Which month had the fewest magazines overall? _____

e) What is the difference between the totals of Grade 5 and Grade 6?

Q3: Mary recorded the number of times she practiced piano for 5 weeks:

Week	Number of practices
Week 1	3
Week 2	5
Week 3	4
Week 4	6
Week 5	7

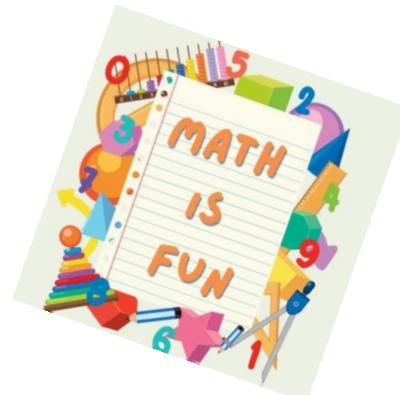
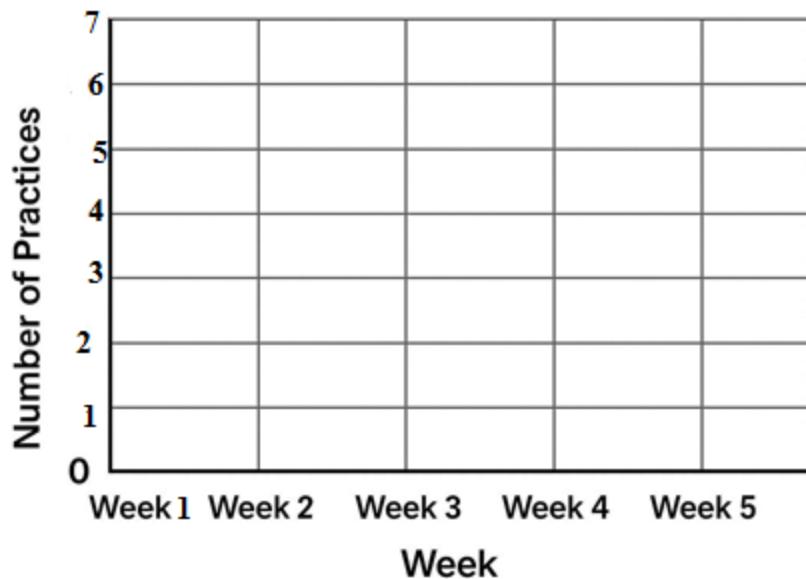
a) How many times did she practice in Week 4? _____

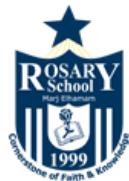
b) In which week did she practice the most? _____

c) In which week did she practice the least? _____

d) Draw a line graph to represent the data

Practiced Piano for 5 Weeks





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Name : _____

Date : / 10 / 2025

Subject: Practice worksheet(3) /unit (2)

Grade : 6 ()

2.1 Rules of Divisibility

Q1: Answer the Following questions and explain your answer.

a. Is 248 divisible by 2? _____

b. Is 515 divisible by 5? _____

c. Is 395 divisible by 3? _____

d. Is 811 divisible by 4? _____

e. Is 666 divisible by 9? _____

f. Is 902 divisible by 10? _____

g. Is 72 divisible by 2 and 3? _____

Q2: Write a number divisible by 3, 4 and 5. _____

Q3: Draw a ring around the numbers that are divisible by 9?

63 72 95 108 123

Q4: A box of 185 oranges must be shared equally among 10 students.

Can it be divided evenly?

Q5: A company prints 2,160 flyers. Can they pack them into boxes of 8 without leftovers?

2.2 Factors, Multiples, and Primes

Q1: List all factors of 24. _____

Q2: List all factors of 42. _____

Q3: List the first 5 multiples of 8. _____

Q4: Write all prime numbers between 20 and 50. _____

Q5: Is 91 a prime number? Explain why.

Q6: Work out the **HCF** of 18 and 24.

Q7: Work out the **LCM** of 6 and 9.

Q8: Work out the **HCF** and **LCM** of 10 and 25.

Q9: Leen has 15 red balloons and 25 blue balloons. She wants to pack them equally. What is the greatest number of packs she can make?

Q10: A bus stops every 12 minutes and a train every 18 minutes. After how many minutes will be the first meeting at the station?

2.3 Positive and Negative Numbers

Q1: Arrange the following numbers in ascending order:

-8 3 -6 0 9 -1

_____ , _____ , _____ , _____ , _____ , _____

Smallest

Q2: Work out.

a. $8 + -10 =$ _____

f. $+ 2 \times + 4 =$ _____

b. $-14 - -6 =$ _____

g. $- 6 \times + 3 =$ _____

c. $-9 + 11 =$ _____

h. $+ 8 \times - 2 =$ _____

d. $-6 - 7 =$ _____

i. $- 7 \times - 5 =$ _____

e. $5 - -3 =$ _____

j. $- 10 \times + 6 =$ _____

Q3: Compare: $-5 \boxed{\quad} -2$

Q4: Draw a ring around the smallest number:

-2 -8 -12 3 0

Q5: A submarine is 90 m below sea level. It rises by 40 m. What is its new depth?

Q6: The temperature was -6°C and rose by 10°C . What is the new temperature?

Q7: An elevator starts at floor 0, goes down 5 floors, then up 8 floors. What floor is it on?

Q8: A freezer temperature is -15°C . If it increases by 9°C , what is the new temperature?

2.4 Squares and Square Roots

Q1: Work out.

a. $6^2 =$ _____ b. $0.7^2 =$ _____

c. $\sqrt[2]{81} =$ _____ d. $\sqrt[2]{64} =$ _____

e. $\sqrt[2]{100} \times \sqrt[2]{25} =$ _____ f. $\sqrt[2]{144} =$ _____

Q2: A square garden has a side length of 15 m. Find its area.

Q3: The area of a square is 49 cm^2 . Find the length of one side.

Q4: Estimate: a. $\sqrt[2]{6} \approx$ b. $\sqrt[2]{80} \approx$

2.5 More Powers and Roots.

Work out.

a. $8^2 + 0.3^2 = \underline{\hspace{2cm}}$

b. $10^2 - 6^2 = \underline{\hspace{2cm}}$

c. $(5 + 2)^2 = \underline{\hspace{2cm}}$

d. $\sqrt[3]{64} = \underline{\hspace{2cm}}$

e. $\sqrt[3]{-27} = \underline{\hspace{2cm}}$

f. $5 \times \sqrt[3]{125} - 15 = \underline{\hspace{2cm}}$

g. $4 \times \sqrt[3]{8} = \underline{\hspace{2cm}}$

h. $\frac{\sqrt[2]{81}}{3} - 4 = \underline{\hspace{2cm}}$

j. $7 \times 2^3 = \underline{\hspace{2cm}}$

I. $\sqrt[3]{216} = \underline{\hspace{2cm}}$

k. $3^3 + 5^3 = \underline{\hspace{2cm}}$

2.6 calculations.

Q1: Write these calculations in ascending order:

$$\sqrt{16} + 3, \sqrt{25} - \sqrt[3]{8}, \sqrt[3]{27} - 3.$$

_____ , _____ , _____

Smallest

Q2: Write these calculations in descending order:

$$\sqrt{64} - \sqrt[3]{27}, \sqrt{49} + 1, \sqrt{36} - 3.$$

_____ , _____ , _____

Largest

Q3: Work out.

a. $4(8 - 2) =$ _____

e. $(-2)^3 =$ _____

b. $(10 - 5)^2 =$ _____

c. $(2 + 3 \times 2)^2 =$ _____

f. $\sqrt{49} + 3 \times 5 =$ _____

d. $(15 \div 3 + 6)^2 =$ _____

h. $\sqrt{90 + 2 \times 5} =$ _____

Teachers: Qusie Hijazeen, Eman Nabbas





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Name :

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Subject: Practice worksheet 4/ unit 3

Grade : 6 ()

Q1) Simplify each expression by combining like terms.

a) $3x + 8x = \underline{\hspace{2cm}}$

b) $7a - 2a + 5 = \underline{\hspace{2cm}}$

c) $10y + 4 - 6y = \underline{\hspace{2cm}}$

d) $5m + 2n + 3m - n = \underline{\hspace{2cm}}$

e) $5x \times 3x = \underline{\hspace{2cm}}$

f) $8a \times 2b = \underline{\hspace{2cm}}$

g) $12y \div 4 = \underline{\hspace{2cm}}$

h) $9m \times 6m = \underline{\hspace{2cm}}$

i) $8a + 5b + 2a - 3b = \underline{\hspace{2cm}}$

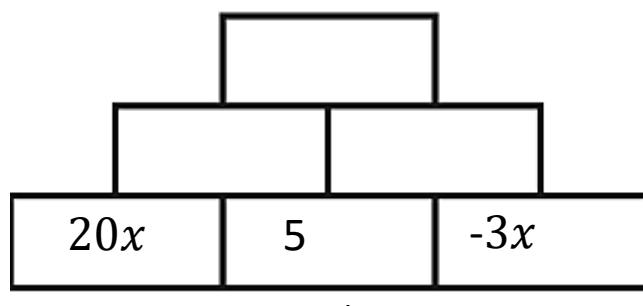
j) $6a + 15 - 4a + 5 = \underline{\hspace{2cm}}$

k) $9y - 2 + 4y + 8 = \underline{\hspace{2cm}}$

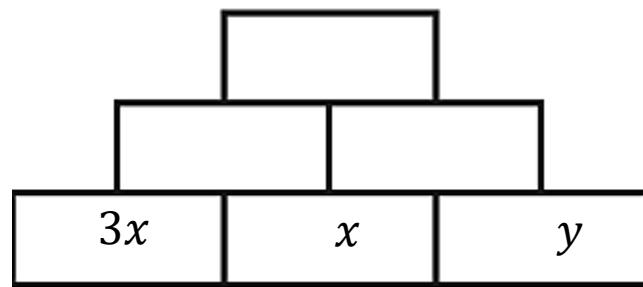
l) $3x \times 7x = \underline{\hspace{2cm}}$



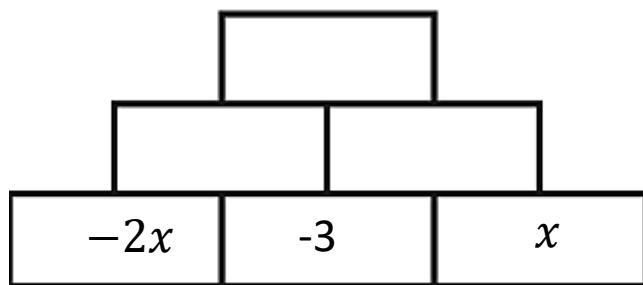
Q2) Complete this addition pyramid.



Q3) a) Complete this multiplication pyramid.

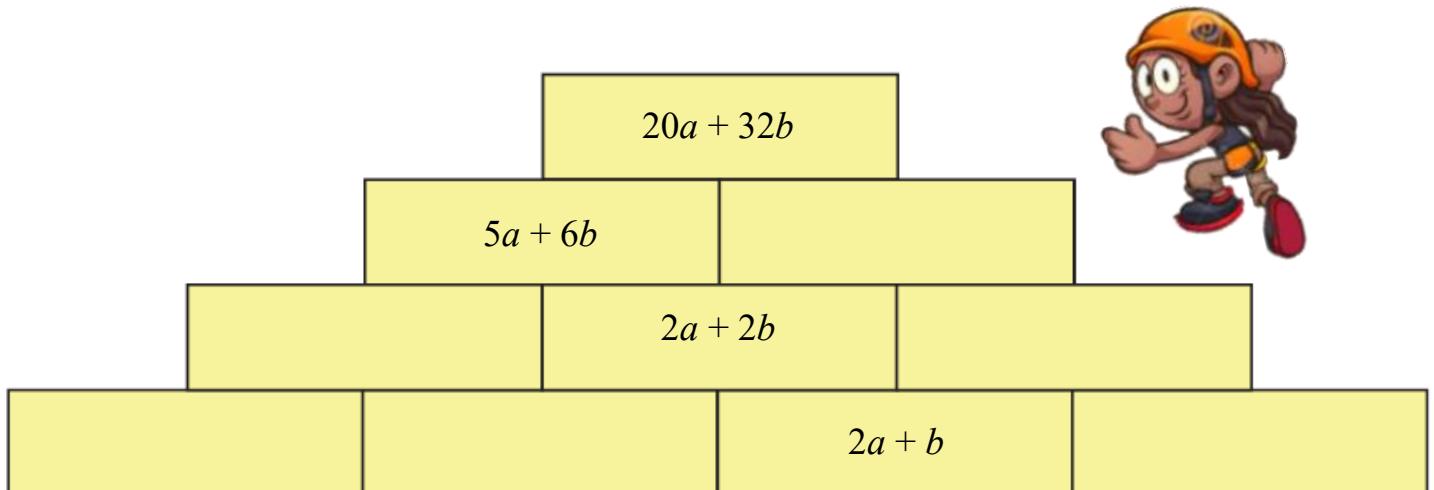


b) Complete this multiplication pyramid.



Q4) Complete this algebraic pyramid.

Remember, you find the expression in each block by adding the expressions in the two blocks below it.



Q5) Write each as an expression.

- a) Seven more than four times $M \rightarrow$ _____
- b) Twelve less than $N \rightarrow$ _____
- c) Half of P plus 8 \rightarrow _____
- d) Q divided by 5, then increased by 2 \rightarrow _____
- e) Triple R , then subtract 6 \rightarrow _____
- f) The sum of two times S and 7 \rightarrow _____
- g) Five more than the product of 3 and $X \rightarrow$ _____
- h) Y minus 4 \rightarrow _____
- i) Twice A plus 10 \rightarrow _____
- j) Z divided by 2, then subtract 3 \rightarrow _____
- k) Four times B increased by 9 \rightarrow _____
- l) Triple D plus 5 \rightarrow _____
- m) E divided by 3, then increased by 4 \rightarrow _____
- n) Twice F minus 7 \rightarrow _____

Q6) A woman is m years old.

- a) How old was she 8 years ago? _____
- b) Her brother is 5 years older than she is. How old is he? _____
- c) Her father is three times her age. How old is he? _____

Q7) A baker bakes c cakes.

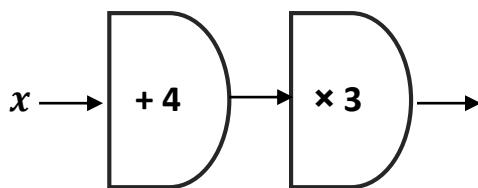
a) He sells 7 cakes. How many are left? _____

b) He bakes double the remaining cakes. How many does he have now?

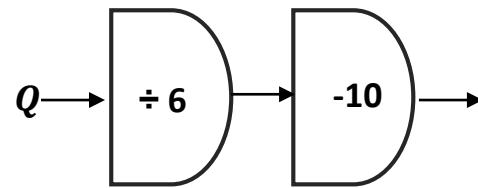
c) He gives away 5 cakes to charity. How many does he have left?

Q7) Write an expression for the output of the function machine.

a)



b)



Q8) The formula for converting a temperature from Fahrenheit (F) to Celsius (C) is:

$$C = \frac{5(F - 32)}{9}$$

Convert these temperatures into $^{\circ}\text{C}$:

a) 50°F

b) 68°F

Q9) Work out the **value** of each expression.

a) $5x + 3y$ when $x = 6$ and $y = 4$

b) $7a - 2b$ when $a = 10$ and $b = 3$

c) $m \div 4$ when $m = 36$

d) $18 \div p - 5q$ when $p = 6$ and $q = 2$

e) $9t - 4u + 6$ when $t = 7$ and $u = 3$

f) $v \div 2 + 5w$ when $v = 20$ and $w = 4$

Q10) a) A taxi charges \$5 per kilometer. Write a formula connecting the total fare, F , in dollars, with the number of kilometers driven, k .

b) A loaf of bread costs \$2.50. Write a formula connecting the total cost, C , in dollars, with the number of loaves bought, n .

c) Lina has \$20. Write a formula to calculate the amount of money Lina has left, L , in \$, after spending x .

Q11) Expand the brackets.

a) $5(x + 8)$

b) $9(2y - 3)$

c) $8(2m + 9)$

d) $7(5p - 2x)$

e) $3x(x + 6b)$

f) $5y(2y - 4)$

c) $-7(2p + 9)$

d) $-6(5y - 4)$

e) $x(x + b)$

f) $-8y(2y - 4)$



Teachers: Eman Nabas, Qusie Hijazeen



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Name: _____

Date : / 11/ 2025

Subject: Practice worksheet 5 / Unit 4

Grade : 6 ()

Fractions

4.1 working with fractions

Q1. Work out the highest common factor of.

a. 18 and 27

HCF = _____

b. 14 and 21

HCF = _____

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

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

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

c. $\frac{11}{12}$ $\frac{5}{6}$

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

What fraction of the books are science books?

Write in simplest form.

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

4.2 Adding and subtracting fractions

Q1. Work out the lowest common multiple.

a. 6 and 9

LCM=_____

b. 4 and 10

LCM= _____

Q2. Write these improper fractions as mixed numbers.

a. $\frac{11}{4} =$

b. $\frac{19}{6} =$

c. $\frac{20}{8} =$

Q3. Work out

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

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

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?

4.3 Fractions, decimals and percentages.

Q1. Complete the table.

Write each fraction in its simplest form.

Fraction	Decimal	Percentage
$\frac{1}{5}$		
	0.55	
		42%

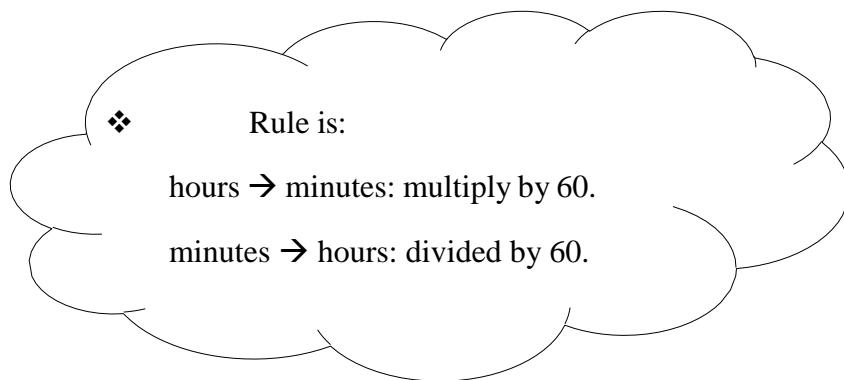
Q2. Write these fractions as decimals.

a. $\frac{2}{20} =$

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

b. $\frac{3}{8} =$

d. $\frac{5}{25} =$



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.

a. $\frac{6}{25} = \underline{\hspace{2cm}} \%$

b. $\frac{15}{25} = \underline{\hspace{2cm}} \%$

c. $\underline{\hspace{2cm}} \% = 0.4$

4.4 Multiplying by a fraction.

Q1. Work out+

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

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

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

d. $5 \times \frac{4}{7} =$

Q2. A recipe uses $\frac{3}{4}$ cup of milk. Sara makes 3 batches.
How much milk does she need?

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

_____ m^2

Q4. A water tank holds 180 l.

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

How many liters are used?

_____ l

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

How much rice was sold?

_____ kg

4.5 Working with mixed numbers.

Q1. Work out:

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

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

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

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

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

How much is left?

_____ metres

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

_____ km

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

How much oil is needed for 3 cakes?

_____ Cups



Teachers:- Qusie Hijazeen, Eman Nabas.