



Rosary School \ Marj El Hamam

Name:

Date: / 8 / 2025

Subject: Math Revision Worksheet

Grade: 7 (A, B, C, D, E)

1. Round:

Number	89.091	1347.99	209.92
Nearest tenth	89.1	1348.0	209.9
Nearest whole number	89	1348	210
Nearest 10	90	1350	210
Nearest 100	100	1300	200

2. Work out

a) $12 - -4 = 16$ b) $3 + -7 = -4$ c) $-2 + 8 = 6$

d) $-15 + -4 = -19$ e) $-2 - -5 = 3$ f) $-8 - -12 = 4$

3. a) Complete this Venn diagram to show the factors of 15 and 18.

Factors of 15: 1, 3, 5, 15

Factors of 18:

1, 2, 3, 6, 9, 18

b) What is the HCF of 15 and 18?

3

4. What is the lowest common multiple of 8 and 12

8: 8, 16, 24, ...

12: 12, 24, 36, ...

LCM is 24

5. Solve each problem using the correct order of operations

a) $5 \times (2^3 + 4) =$

$5 \times (8 + 4) =$

$5 \times 12 = 60$

The order of operations is

- Brackets
- Indices or Powers
- Multiplication and Division
- Addition and Subtraction

b) $(6 + 2) \times (8 - 3^2) =$

$8 \times (8 - 9) =$

$8 \times -1 = -8$

c) $\frac{27 - (\sqrt[3]{125} + 4)}{2} =$

$\frac{27 - (5+4)}{2} = \frac{27-9}{2} = \frac{8}{2} = 4$

6. t represents a number. Write and simplify an expression for

a) 2 more than triple the number $2 + 3t$	b) 5 less than double the number $t^2 - 5$
c) 4 more than double the number $4 + t^2$	d) the number subtract 5 $t - 5$
e) 3 divided by the number $3 \div t$	f) the number multiplied by itself $t \times t = t^2$

7. Simplify

a) $2 + x^3 + 2x^3 - 5 = 3x^3 - 3$

b) $9t \times 5t = 45t^2$

c) $\frac{15a}{3} = 5a$

8. Expand

a) $3(5 + x) = 15 + 3x$

b) $3u(u - 4) = 3u^2 - 12u$

9. Use the formula $y = 10x - z$ to work out the value of y when

a) $x = 4, z = 3$

$$\begin{aligned}y &= 10 \times 4 - 3 \\&= 40 - 3 \\&= 37\end{aligned}$$

b) $x = 5, z = -8$

$$\begin{aligned}y &= 10 \times 5 - -8 \\&= 50 + 8 \\&= 58\end{aligned}$$

10. Simplify.

a) $\frac{16}{24} = \frac{2}{3}$

b) $\frac{9}{12} = \frac{3}{4}$

11. a) Write these improper fractions as mixed numbers.

i. $\frac{23}{3} = 7 \frac{2}{3}$

ii. $\frac{14}{5} = 2 \frac{4}{5}$

b) Write these mixed numbers as improper fractions.

i. $2\frac{3}{7} = \frac{17}{7}$

ii. $5\frac{1}{2} = \frac{11}{2}$

12. Work out these. Give each answer in its simplest form and as a mixed number where necessary.

$$\mathbf{a}) \frac{1}{4} + \frac{5}{8} = \frac{7}{8}$$

$$\mathbf{b}) 1\frac{2}{3} + 3\frac{2}{5} = 4\frac{16}{15} = 5\frac{1}{15}$$

$$\mathbf{c}) 5\frac{1}{4} - 3\frac{5}{8} = \frac{13}{8} = 1\frac{5}{8}$$

$$\mathbf{d}) 10 - 7\frac{10}{15} = 2\frac{5}{15} = 2\frac{1}{3}$$

13. Convert the following fractions into decimals.

$$\mathbf{a}) \frac{4}{5} = 0.8$$

$$\mathbf{b}) \frac{24}{60} = 0.4$$

$$\mathbf{c}) \frac{3}{10} = 0.3$$

14. Work out. Give each answer in its simplest form and as a mixed number where necessary.

$$\mathbf{a}) \frac{4}{11} \times 22 = 8$$

$$\mathbf{b}) 20 \times \frac{3}{16} = \frac{15}{4} = 3\frac{3}{4}$$

$$\mathbf{c}) \frac{3}{10} \times 10 = 3$$

15. Complete this table.

Fraction	$\frac{2}{5}$	$2\frac{3}{4}$	$1\frac{1}{2}$
Decimal	0.4	2.75	1.50
Percentage	40%	275%	150%

16. A bottle of perfume costs \$80.

At an airport the price is reduced by 10%.

Work out the airport price of the bottle of perfume.

$$80 \times \frac{10}{100} = 8$$

$$180 - 8 = \$172$$

17. Simplify these ratios.

a) 3 days : 12 hours

$$72 : 12$$

$$6 : 1$$

b) 4 : 3.4

$$40 : 34$$

$$20 : 17$$

18. If a car travels 250 miles on 10 gallons of gas, how many miles will it travel on 30 gallons of gas?

$$250 : 10$$

$$\underline{750} : 30$$

19. There are only red sweets and blue sweets in a bag.

The ratio of the number of red sweets to the number of blue sweets is 2:1

There are 40 red sweets in the bag.

Work out the total number of sweets in the bag.

Red : blue

$$2 : 1$$

$$40 : \underline{20}$$

$$40 + 20 = 60$$

20. The ratio of men to women in a company is 3:1.

There are 288 employees in the company.

a) How many employees are men?

$$3 : 1$$

$$3+1=4$$

$$288 \div 4 = 72$$

$$72 \times 3 = 216$$

b) How many employees are women? $72 \times 1 = 72$

