

Review Worksheet- Grade 7B



Q 1: Add and Subtract Rational Numbers

Add and subtract the following rational numbers:

a)
$$\frac{2}{3} + \frac{5}{6}$$

b)
$$\frac{7}{8} - \frac{3}{4}$$

Show your steps clearly.

Q 2: Multiply and Divide Rational Numbers

• Multiply

a):
$$\frac{4}{5} \times \frac{3}{7}$$
.

b):
$$6 \frac{4}{7} \times 5 \frac{2}{3}$$
.

• Divide:

a):
$$\frac{4}{5} \div \frac{3}{6}$$

b):
$$5 \frac{3}{4} \div 6 \frac{2}{3}$$

Show your steps and simplify if necessary.

Q 3: Ratios and percent

a) - If a car travels 150 miles in 3 hours, what is the distance in miles per 1 hour?

- If the car travels for 9 hours, what distance is it moved?



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b) What is 64% of the 4444?

c) What is 190% of 3000 \$?

Q4. Find the value of following expression

1.
$$3(2x - 4) + 3y - (y^2)$$
, when $x = 3$, $y = -2$

2.
$$(4z-6)-(3z+9)+10$$
, when $z=3$

3.
$$(11 - 4y) + 7y - 3(3 - y)$$
, when $y = 4$

4.
$$(3-x^2)+(9+3x^2)$$
, when $x=-2$

Q5. Simplify the expressions and use the right property (Commutative property , Associative Property , Distributive property , factor out)

$$a - 3xy^2 - 9xy + 6x^2y$$
 factor out

b-
$$3(z - 3) + 9(z + 1)$$
 distributive property



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c-
$$7y - 2x - 3y + 3x - 12$$
 commutative property

Q6. Evaluate the following expression

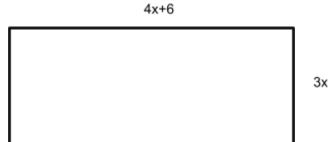
a.
$$(3-x)(9-x)$$

b.
$$4(x - y) + y(4 - x)$$

c.
$$17x - 2(13x + 9x)$$

Q7. Find the perimeter of following figures

a.



b.

