

Grade 9 Chapter 3.4-3.6 Quiz - Version 1

Multiple Choice

Identify the choice that best completes the statement or answers the question.

- _____ 1. Determine this product.
 $(-3.41)(-8.4)$
a. 2.8644 b. 28.644 c. -28.644 d. 286.44
- _____ 2. Determine this product.
 $\left(-\frac{5}{6}\right)\left(\frac{3}{2}\right)$
a. $-\frac{5}{4}$ b. $\frac{2}{3}$ c. $-\frac{2}{3}$ d. $\frac{5}{4}$
- _____ 3. The price of a share changed by $-\$1.75$. A person owns 160 shares.
By how much did his shares change in value?
a. $+\$280.00$ b. $-\$280.00$ c. $-\$120.00$ d. $-\$91.43$
- _____ 4. Which quotients are less than 0?
i) $\left(\frac{-5}{6}\right) \div \left(\frac{7}{-6}\right)$
ii) $\left(\frac{-5}{6}\right) \div \left(\frac{7}{6}\right)$
iii) $\left(\frac{-5}{-6}\right) \div \left(\frac{-7}{6}\right)$
iv) $\left(\frac{-5}{6}\right) \div \left(\frac{-7}{6}\right)$
a. ii and iv b. i and iii c. ii and iii d. i and iv
- _____ 5. Determine this quotient.
 $\frac{4}{5} \div \left(\frac{-3}{10}\right)$
a. $\frac{6}{25}$ b. $\frac{25}{6}$ c. $-\frac{8}{3}$ d. $-\frac{3}{8}$
- _____ 6. Which expressions have the same answer as $(-0.55) \div 0.66$?
i) $5.5 \div (-6.6)$
ii) $(-55) \div (6.6)$
iii) $55 \div (-0.066)$
iv) $0.0055 \div (-0.0066)$
a. ii and iii b. i and iii c. ii and iv d. i and iv

_____ 7. Determine this quotient.

$$2\frac{1}{2} \div \left(3\frac{2}{3}\right)$$

a. $9\frac{1}{6}$

b. $\frac{6}{55}$

c. $1\frac{7}{15}$

d. $\frac{15}{22}$

_____ 8. Which quotients are less than -1 ?

i) $\left(-\frac{1}{6}\right) \div \frac{1}{5}$

ii) $\left(-\frac{1}{5}\right) \div \frac{1}{6}$

iii) $\frac{1}{6} \div \left(-\frac{1}{5}\right)$

iv) $\frac{1}{5} \div \left(-\frac{1}{6}\right)$

a. ii and iv

b. iii and iv

c. i and iii

d. i and ii

_____ 9. Evaluate.

$$\frac{3}{4} \div \left(\frac{4}{3} + \frac{1}{6}\right)$$

a. $\frac{5}{12}$

b. $\frac{5}{11}$

c. $\frac{35}{48}$

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

_____ 10. Evaluate.

$$5.2 \times 2.8 - 1.6 \times 0.6$$

a. 15.52

b. 3.744

c. 3.12

d. 13.6

_____ 11. Which expression has the greatest value?

i) $9.3 - 2.7 \times (-1.6)^2$

ii) $9.3 - [2.7 \times (-1.6)^2]$

iii) $(9.3 - 2.7) \times (-1.6)^2$

iv) $9.3 \times (-2.7) \times (-1.6)^2$

a. ii

b. iii

c. iv

d. i

_____ 12. A student has \$1678 in her savings account. She withdraws \$95 each week.

A formula for calculating the amount of money remaining in her account is $A = T - 95w$, where T dollars is the original amount and w is the number of weeks she has been withdrawing money.

Determine the amount of money remaining in her account after 17 weeks.

a. \$1615

b. \$1566

c. \$1600

d. \$63

Short Answer

13. Determine this product.

$$8.3 \times (-8)$$

Name: _____

ID: A

14. Determine this product.

$$\left(\frac{5}{2}\right)\left(-\frac{18}{7}\right)$$

15. Evaluate.

$$28.4 - 9.5 \times (8.3 - 5.5)$$

Problem

16. a) Predict which expressions are between -1 and $+1$.
b) Calculate each product.

i) $(-18.9)(0.05)$

ii) $\left(-\frac{3}{2}\right)\left(-\frac{5}{4}\right)$

iii) $(-1.8)(-0.4)$

iv) $\left(\frac{3}{4}\right)\left(-\frac{4}{6}\right)$

17. Replace \square with a rational number to make each statement true.

a) $\square \div 1.85 = -0.7$

b) $\frac{7}{15} \div \square = -\frac{7}{12}$