

Name _____ Date _____

Pretest: Circle the number of your proficiency in the following areas.

Posttest: Put an X on the number of your proficiency in the following areas.

Unit: ABE Math – Multiplying and Dividing Integers

Standards: D.06.04, D.06.05, D.06.06, D.06.07

Learning Goal:

Students will be able to perform all of the operations for multiplication and division of integers including the multiplication of 3 or more numbers at a time and division including fractions.

GOALS	
4	Students will be able to create and solve correctly their own multiplication of integers problem and division of integers problem including the multiplication of 3 or more numbers at a time and division including fractions.
	0 1 2 3 4
3	Students will be able to perform all of the operations for multiplication and division of integers including the multiplication of 3 or more numbers at a time and division including fractions.
	0 1 2 3 4
2	Students will be able to perform all of the steps of multiplication of integers for 3 or more numbers at a time and division of integers not including fractions.
	0 1 2 3 4
1	Students will be able to perform all of the operations for multiplication of integers for 2 numbers at a time.
	0 1 2 3 4

MULTIPLICATION AND DIVISION OF INTEGERS RULES

MULTIPLICATION AND DIVISION OF INTEGERS RULES:

1. If the signs are the same, your answer will be positive.
2. If the signs are different, your answer will be negative.

$$(-3)(-3) = 9$$

$$(-3)(4) = -12$$

$$++ = +$$

$$-- = +$$

$$+- = -$$

$$-+ = -$$

MULTIPLICATION OF INTEGERS RULES (3 or more numbers at a time):

1. Solve the first two integers first using the rule for signs (ignore the other number or numbers).
2. Once you find the answer for the first two, bring down the 3rd number and solve using the rule for signs again.
3. Continue this until you have multiplied all of the numbers.

$$\begin{array}{l} (-2)(-3)(-2) = \\ \quad \swarrow \quad \searrow \\ \quad (6)(-2) = \textcircled{-12} \end{array}$$

DIVISION OF INTEGERS IF YOU HAVE A FRACTION:

1. Reduce the fraction first.
2. Use your rule for signs.

$$\frac{-5}{-25} \div 5$$

$$= \frac{-1}{-5} = \textcircled{\frac{1}{5}}$$

Multiplication :



Multiply. (Remember: Like signs give positive products. Unlike signs give negative products.)

1. $3 \cdot 6 =$

$+7 \cdot -5 =$

$+8 \cdot +4 =$

$-6 \cdot -9 =$

2. $-8 \times -7 =$

$5 \times 4 =$

$6 \times -8 =$

$-3 \times 4 =$

3. $(+6)(+6) =$

$(-4)(-7) =$

$7(6) =$

$(-2)(-9) =$

4. $(8)(-5) =$

$(-3)(+3) =$

$(9)(-4) =$

$(-5)(6) =$

5. $(-9)(-5) =$

$(-9)(+6) =$

$(-7)(-3) =$

$(+6)(-4) =$

When you multiply more than two signed numbers, multiply them two at a time or use the shortcut given by the following rule.

Rules for multiplying more than two signed numbers:

Multiply all the numbers together.

- If there are an even number of negative signs, give the product a positive sign.
- If there are an odd number of negative signs, give the product a negative sign.



Multiply. Two problems are done as examples.

6. $(-5)(+2)(-3) = +30$
two negative signs

$(-2)(-2)(+4) =$

$(-2)(+3)(-2)(+4) =$

7. $(-3)(-4)(-2) = -24$
three negative signs

$(-1)(-3)(-6) =$

$(-1)(-3)(-2)(-2)(-3) =$

8. $-3 \cdot -4 =$

$-5 \cdot -2 \cdot -4 =$

$-1 \cdot -4 \cdot -6 \cdot -2 =$

9. $-2 \times -4 \times -2 =$

$-3 \times 5 \times -2 =$

$-1 \times -4 \times 2 =$

Multiplication :



Multiply. (Remember: Like signs give positive products. Unlike signs give negative products.)

- | | | | |
|-------------------------|---------------------|---------------------|---------------------|
| 1. $3 \cdot 6 = 18$ | $+7 \cdot -5 = -35$ | $+8 \cdot +4 = 32$ | $-6 \cdot -9 = +54$ |
| 2. $-8 \times -7 = +56$ | $5 \times 4 = 20$ | $6 \times -8 = -48$ | $-3 \times 4 = -12$ |
| 3. $(+6)(+6) = 36$ | $(-4)(-7) = 28$ | $7(6) = 42$ | $(-2)(-9) = +18$ |
| 4. $(8)(-5) = -40$ | $(-3)(+3) = -9$ | $(9)(-4) = -36$ | $(-5)(6) = -30$ |
| 5. $(-9)(-5) = 45$ | $(-9)(+6) = -54$ | $(-7)(-3) = 21$ | $(+6)(-4) = -24$ |

When you multiply more than two signed numbers, multiply them two at a time or use the shortcut given by the following rule.

Rules for multiplying more than two signed numbers:

Multiply all the numbers together.

- If there are an even number of negative signs, give the product a positive sign.
- If there are an odd number of negative signs, give the product a negative sign.



Multiply. Two problems are done as examples.

6. $(-5)(+2)(-3) = +30$
two negative signs

$$\begin{aligned} (-2)(-2)(+4) &= 16 \\ (4)(4) & \end{aligned}$$

$$\begin{aligned} (-2)(+3)(-2)(+4) &= 48 \\ (-6)(-2) & \\ (12)(4) & \end{aligned}$$

7. $(-3)(-4)(-2) = -24$
three negative signs

$$\begin{aligned} (-1)(-3)(-6) &= -18 \\ (3)(-6) & \end{aligned}$$

$$\begin{aligned} (-1)(-3)(-2)(-2)(-3) &= -36 \\ (3)(-2) & \\ (-6)(-2) & \\ (12)(-3) & \end{aligned}$$

8. $-3 \cdot -4 = 12$

$$\begin{aligned} -5 \cdot -2 \cdot -4 &= -40 \\ (10)(-4) & \end{aligned}$$

$$\begin{aligned} -1 \cdot -4 \cdot -6 \cdot -2 &= 48 \\ (4)(-6) & \\ (-24)(-2) & \end{aligned}$$

9. $-2 \times -4 \times -2 = -16$
 $(8)(-2)$

$$\begin{aligned} -3 \times 5 \times -2 &= 30 \\ (-15)(-2) & \end{aligned}$$

$$\begin{aligned} -1 \times -4 \times 2 &= 8 \\ (4)(2) & \end{aligned}$$

Division :



Divide. (Remember: Like signs give positive quotients. Unlike signs give negative quotients.)

1. $\frac{-24}{+4} =$

$\frac{+30}{-6} =$

$\frac{-42}{-7} =$

$\frac{+63}{+9} =$

2. $\frac{-104}{-8} =$

$\frac{-68}{2} =$

$\frac{54}{3} =$

$\frac{70}{-5} =$

3. $-18 - 6 =$

$72 - -8 =$

$81 - 9 =$

$-48 - -6 =$

4. $100 - -4 =$

$-28 - 2 =$

$-150 - -5 =$

$96 - -4 =$

5. $12/-6 =$

$-4/2 =$

$-18/-3 =$

$-28/7 =$

6. $42/-3 =$

$-60/4 =$

$-72/-6 =$

$-125/5 =$

Sometimes, the answer to a division problem is a fraction. The fraction should be reduced to lowest terms and the sign placed in front of the fraction.



Divide. The first problem in each row is done as an example.

7. $-6 \div 9 = \frac{-6}{9} = -\frac{2}{3}$

$-9 \div 12 =$

$-5 \div 10 =$

$-8 \div 20 =$

8. $-3 \div -6 = \frac{-3}{-6} = \frac{1}{2}$

$-4 \div -10 =$

$-12 \div -16 =$

$-8 \div -12 =$

9. $\frac{5}{-25} = -\frac{5}{25} = -\frac{1}{5}$

$\frac{-50}{125} =$

$\frac{35}{-100} =$

$\frac{-100}{150} =$

Division :



Divide. (Remember: Like signs give positive quotients. Unlike signs give negative quotients.)

1. $\frac{-24}{+4} = -6$

$\frac{+30}{-6} = -5$

$\frac{-42}{-7} = 6$

$\frac{+63}{+9} = 7$

2. $\frac{-104}{-8} = 13$

$\frac{-68}{2} = -34$

$\frac{54}{3} = 18$

$\frac{70}{-5} = -14$

3. $-18 \div 6 = -3$

$72 \div -8 = -9$

$81 \div 9 = 9$

$-48 \div -6 = 8$

4. $100 \div -4 = -25$

$-28 \div 2 = -14$

$-150 \div -5 = 30$

$96 \div -4 = -24$

5. $12 \div -6 = -2$

$-4 \div 2 = -2$

$-18 \div 3 = 6$

$-28 \div 7 = -4$

6. $42 \div -3 = -14$

$-60 \div 4 = -15$

$-72 \div -6 = 12$

$-125 \div 5 = -25$

Sometimes, the answer to a division problem is a fraction. The fraction should be reduced to lowest terms and the sign placed in front of the fraction.



Divide. The first problem in each row is done as an example.

7. $-6 \div 9 = \frac{-6}{9} = -\frac{2}{3}$

$-9 \div 12 = \frac{-9}{12} = -\frac{3}{4}$

$-5 \div 10 = \frac{-5}{10} = -\frac{1}{2}$

$-8 \div 20 = \frac{-8}{20} = -\frac{2}{5}$

8. $-3 \div -6 = \frac{-3}{-6} = \frac{1}{2}$

$-4 \div -10 = \frac{-4}{-10} = \frac{2}{5}$

$-12 \div -16 = \frac{-12}{-16} = \frac{3}{4}$

$-8 \div -12 = \frac{-8}{-12} = \frac{2}{3}$

9. $\frac{5}{-25} = -\frac{5}{25} = -\frac{1}{5}$

$\frac{-50}{125} = -\frac{2}{5}$

$\frac{35}{-100} = -\frac{7}{20}$

$\frac{-100}{150} = -\frac{4}{3}$



Multiply

Review:

5. $(9)(-3) =$

$(-4)(+7) =$

$(5)(-3) =$

$(-8)(2) =$

6. $(-6)(-5) =$

$(+5)(+3) =$

$(-8)(-4) =$

$(9)(6) =$

7. $(-2)(-4)(-3) =$

$(-2)(+3)(-6) =$

$(-1)(-3)(-2)(-3) =$



Divide.

8. $\frac{-30}{+6} =$

$\frac{+28}{-4} =$

$\frac{-48}{-6} =$

$\frac{+56}{+7} =$

9. $24 \div -6 =$

$-64 \div -8 =$

$49 \div -7 =$

$-54 \div 9 =$

10. $18 \div -3 =$

$-14 \div 7 =$

$-24 \div -8 =$

$-27 \div 3 =$

11. $-14 \div -16 =$

$8 \div -10 =$

$-6 \div 8 =$

$-10 \div -15 =$



Multiply.

5. $(9)(-3) = -27$

$(-4)(+7) = -28$

$(6)(-3) = -18$

$(-8)(2) = -16$

6. $(-6)(-5) = 30$

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

$(-8)(-4) = 32$

$(9)(6) = 54$

7. $(-2)(-4)(-3) = -24$
 $(8)(-3)$

$(-2)(+3)(-6) = 36$
 $(-4)(-6)$

$(-1)(-3)(-2)(-3) = 18$
 $(3)(-2)(-3)$
 $(-6)(-3)$



Divide.

8. $\frac{-30}{+6} = -5$

$\frac{+28}{-4} = -7$

$\frac{-48}{-6} = 8$

$\frac{+56}{+7} = 8$

9. $24 \div -6 = -4$

$-64 \div -8 = 8$

$49 \div -7 = -7$

$-54 \div -9 = 6$

10. $18 \div -3 = -6$

$-14 \div 7 = -2$

$-24 \div -8 = 3$

$-27 \div 3 = -9$

11. $-14 \div -16 = \frac{7}{8}$
 $\frac{-14}{-16} = \frac{7}{8}$

$8 \div -10 = -\frac{4}{5}$
 $-\frac{8}{10} = -\frac{4}{5}$

$-6 \div 8 = -\frac{3}{4}$
 $-\frac{6}{8} = -\frac{3}{4}$

$-10 \div -15 = \frac{2}{3}$
 $\frac{-10}{-15} = \frac{2}{3}$

Review Answers

Multiply. Circle the answer.

1

$6 \times -8 =$

- A -48
- B 48
- C -42
- D 48
- E None of these

2

$-4 \times -15 =$

- F -60
- G 60
- H -90
- J 90
- K None of these

3

$-12 \times -4 =$

- L -36
- M 36
- N -54
- D 54
- None of these

4

$7 \times -7 =$

- 49
- 48
- H 48
- J 49
- K None of these

5

$-6 \times 9 =$

- A 56
- B -56
- C -54
- D 54
- E None of these

6

$7 \times -8 =$

- F 54
- G 56
- H -54
- J -56
- K None of these

7

$-5 \times 8 =$

- A 35
- B 40
- C -35
- D -40
- F None of these

8

$-7 \times -4 =$

- I -21
- G -28
- I -35
- J -42
- None of these

9

$-8 \times -12 =$

- L -94
- I 94
- C -96
- D 96
- E None of these

10

$15 \times 15 =$

- F -225
- G 225
- H -125
- J 125
- K None of these

Check your answers on pages 64-65.

Divide. Circle the answer.

- 1 $-72 \div -6 =$
- A 10
 - B 12
 - C -12
 - D -10
 - E None of these

- 2 $-96 \div -12 =$
- F -6
 - G -9
 - H 6
 - J 9
 - K None of these

- 3 $96 \div -8 =$
- A 12
 - B 14
 - C -12
 - D -14
 - E None of these

- 4 $80 \div -10 =$
- F 8
 - G -10
 - H -8
 - J 10
 - K None of these

- 5 $-85 \div -17 =$
- A 6
 - B -6
 - C 5
 - D -5
 - E None of these

- 6 $-92 \div 4 =$
- F 20
 - G -24
 - H 24
 - J -20
 - K None of these

- 7 $84 \div -7 =$
- A 10
 - B -12
 - C 12
 - D -10
 - E None of these

- 8 $-72 \div 18 =$
- F -4
 - G -6
 - H 4
 - J 6
 - K None of these

- 9 $-63 \div -3 =$
- A 21
 - B 22
 - C -21
 - D -20
 - E None of these

- 10 $-72 \div 24 =$
- F 3
 - G -3
 - H 2
 - J -2
 - K None of these

Check your answers on page 65.

Multiplying three or more numbers

When multiplying, simply multiply from left to right, changing the sign as needed.

Examples:

$$-2 \times 5 \times -1 = 10$$

$$6 \times -2 \times -2 = 24$$

$$-4 \times -1 \times -3 = -12$$

$$3 \times 2 \times -3 = -18$$

Practice problems:

1. $-2 \times 5 \times 5 =$

2. $3 \times 1 \times -1 =$

3. $7 \times -2 \times 2 =$

4. $-5 \times -1 \times -3 =$

5. $9 \times -3 \times -1 =$

$$4. J \quad \frac{5}{6} \times \frac{2}{3} = \frac{10}{18} = \frac{5}{9}$$

[Multiplication of Fractions]

$$5. C \quad \frac{6}{8} - \frac{1}{4} = \frac{3}{4} - \frac{1}{4} = \frac{2}{4} = \frac{1}{2}$$

[Subtraction of Fractions]

$$6. K \quad \frac{3}{4} \div \frac{5}{6} = \frac{3}{4} \times \frac{6}{5} = \frac{18}{20} = \frac{9}{10}$$

[Division of Fractions]

$$7. D \quad \frac{2}{7} \times \frac{1}{4} = \frac{2}{28} = \frac{1}{14}$$

[Multiplication of Fractions]

$$8. H \quad 3 \frac{55}{100} + 4 \frac{8}{10} =$$

$$3 \frac{55}{100} + 4 \frac{80}{100} =$$

$$7 \frac{135}{100} = 8 \frac{35}{100} = 8 \frac{7}{20}$$

[Addition of Fractions]

$$9. D \quad 4 - 2 \frac{1}{6} = \frac{24}{6} - \frac{13}{6} =$$

$$\frac{11}{6} = 1 \frac{5}{6}$$

[Subtraction of Fractions]

$$10. H \quad \frac{9}{22} + \frac{13}{22} = \frac{22}{22} = 1$$

[Addition of Fractions]

$$11. B \quad 3 \frac{3}{5} \div 2 = \frac{18}{5} \times \frac{1}{2} = \frac{18}{10} =$$

$$1 \frac{8}{10} = 1 \frac{4}{5}$$

[Division of Fractions]

$$12. F \quad 4 \frac{1}{4} + 5 \frac{2}{5} =$$

$$4 \frac{5}{20} + 5 \frac{8}{20} = 9 \frac{13}{20}$$

[Addition of Fractions]

$$13. E \quad 9 - 8 \frac{1}{6} = \frac{54}{6} - \frac{49}{6} = \frac{5}{6}$$

[Subtraction of Fractions]

$$14. H \quad 2 \frac{7}{25} + 1 \frac{3}{5} = 2 \frac{7}{25} +$$

$$1 \frac{15}{25} = 3 \frac{22}{25}$$

[Addition of Fractions]

$$15. B \quad 3 \frac{7}{8} \div \frac{1}{6} = \frac{31}{8} \times \frac{6}{1} =$$

$$\frac{186}{8} = 23 \frac{2}{8} = 23 \frac{1}{4}$$

[Division of Fractions]

$$16. H \quad \frac{4}{7} - \frac{3}{7} = \frac{1}{7}$$

[Subtraction of Fractions]

Lesson 12 Addition of Integers (page 39)

1. C
 $8 + ^{-}3 = 8 - 3 = 5$

2. J
 $^{-}4 + 9 = 5$

3. D
 $9 + ^{-}2 = 9 - 2 = 7$

4. H
 $4 + ^{-}6 = 4 - 6 = ^{-}2$

5. B
 $^{-}9 + 13 = 4$

6. J
 $10 + ^{-}7 = 10 - 7 = 3$

7. E
 $^{-}8 + 8 = 0$

8. G
 $3 + ^{-}9 = 3 - 9 = ^{-}6$

9. E
 $^{-}7 + 5 = ^{-}2$

10. F
 $^{-}8 + 7 = ^{-}1$

Lesson 13 Subtraction of Integers (page 41)

1. A
 $27 - ^{-}5 = 27 + ^{+}5 = 32$

2. G
 $7 - ^{-}8 = 7 + ^{+}8 = 15$

3. C
 $^{-}9 - 16 = ^{-}25$

4. F
 $8 - ^{-}5 = 8 + ^{+}5 = 13$

5. C
 $28 - ^{-}3 = 28 + ^{+}3 = 31$

6. K
 $^{-}8 - 13 = ^{-}21$

7. C
 $3 - ^{-}10 = 3 + ^{+}10 = 13$

8. K
 $18 - ^{-}4 = 18 + ^{+}4 = 22$

9. A
 $3 - ^{-}7 = 3 + ^{+}7 = 10$

10. F
 $^{-}5 - 15 = ^{-}20$

Lesson 14 Multiplication of Integers (page 43)

1. A
 $6 \times ^{-}8 = ^{-}48$

2. G
 $^{-}4 \times ^{-}15 = 60$

3.
 $^{-}12 \times ^{-}4 = 48$

4. I
 $7 \times ^{-}7 = ^{-}49$

5. C
 $^{-}6 \times 9 = ^{-}54$

6. I
 $7 \times ^{-}8 = ^{-}56$

7. D
 $^{-}5 \times 8 = ^{-}40$

8. K
 $^{-}7 \times ^{-}4 = 28$

9. D
 $^{-}8 \times ^{-}12 = 96$

10. G
 $15 \times 15 = 225$

Lesson 15 Division of Integers (page 45)

1. B
 $^{-}72 \div ^{-}6 = \begin{array}{r} 12 \\ 6 \overline{)72} \\ \underline{-6} \\ 12 \\ \underline{-12} \\ 0 \end{array}$

$$2. K \quad -96 \div -12 = 12 \overline{)96}$$

$$\begin{array}{r} -96 \\ \hline 0 \end{array}$$

$$3. C \quad 96 \div -8 = -8 \overline{)96}$$

$$\begin{array}{r} -8 \\ \hline 16 \\ -16 \\ \hline 0 \end{array}$$

$$4. H \quad 80 \div -10 = -10 \overline{)80}$$

$$\begin{array}{r} -80 \\ \hline 0 \end{array}$$

$$5. C \quad -85 \div -17 = 17 \overline{)85}$$

$$\begin{array}{r} -85 \\ \hline 0 \end{array}$$

$$6. K \quad -92 \div 4 = 4 \overline{)92}$$

$$\begin{array}{r} -8 \\ \hline 12 \\ -12 \\ \hline 0 \end{array}$$

[Opposite signs = negative answer]

$$7. F \quad 84 \div -7 = -7 \overline{)84}$$

$$\begin{array}{r} -7 \\ \hline 14 \\ -14 \\ \hline 0 \end{array}$$

$$8. F \quad -72 \div 18 = 18 \overline{)72}$$

$$\begin{array}{r} -72 \\ \hline 0 \end{array}$$

[Opposite signs = negative answer]

$$9. A \quad -63 \div -3 = 3 \overline{)63}$$

$$\begin{array}{r} -6 \\ \hline 03 \\ -3 \\ \hline 0 \end{array}$$

[Opposite signs = negative answer]

$$10. G \quad -72 \div 24 = 24 \overline{)72}$$

$$\begin{array}{r} -72 \\ \hline 0 \end{array}$$

[Opposite signs = negative answer]

TABE Review: Integers
(pages 46-47)

$$1. B \quad 30 - -5 = 30 + 5 = 35$$

[Subtraction of Integers]

$$2. J \quad -80 \div -5 = 5 \overline{)80}$$

$$\begin{array}{r} -5 \\ \hline 30 \\ -30 \\ \hline 0 \end{array}$$

[Division of Integers]

$$3. B \quad -9 + 4 = -5$$

[Addition of Integers]

$$4. F \quad 4 - -9 = 4 + 9 = 13$$

[Subtraction of Integers]

$$5. E \quad -99 \div -11 = 11 \overline{)99}$$

$$\begin{array}{r} -99 \\ \hline 0 \end{array}$$

[Division of Integers]

$$6. H \quad 7 + -9 = 7 - 9 = -2$$

[Addition of Integers]

$$7. D \quad -65 \div -5 = 5 \overline{)65}$$

$$\begin{array}{r} -5 \\ \hline 15 \\ -15 \\ \hline 0 \end{array}$$

[Division of Integers]

$$8. J \quad -4 - 18 = -22$$

[Subtraction of Integers]

$$9. C \quad 5 \times -6 = -30$$

[Multiplication of Integers]

$$10. H \quad 8 \times -4 = -32$$

[Multiplication of Integers]

$$11. A \quad 60 \div -15 = -15 \overline{)60}$$

$$\begin{array}{r} -60 \\ \hline 0 \end{array}$$

[Division of Integers]

$$12. K \quad 5 + -4 = 5 - 4 = 1$$

[Addition of Integers]

$$13. B \quad 26 - -3 = 26 + 3 = 29$$

[Subtraction of Integers]

$$14. K \quad -76 \div 4 = 4 \overline{)76}$$

$$\begin{array}{r} -19 \\ -4 \\ \hline 36 \\ -36 \\ \hline 0 \end{array}$$

[Opposite signs = negative answer]

[Division of Integers]

$$15. D \quad -6 + 8 = 2$$

[Addition of Integers]

$$16. F \quad -7 - 4 = -11$$

[Subtraction of Integers]

$$17. A \quad 6 + -10 = 6 - 10 = -4$$

[Addition of Integers]

$$18. F \quad 84 \div -21 = -21 \overline{)84}$$

$$\begin{array}{r} -84 \\ \hline 0 \end{array}$$

[Division of Integers]

$$19. C \quad -3 + 11 = 8$$

[Addition of Integers]

$$20. G \quad -3 - 11 = -14$$

[Subtraction of Integers]

Lesson 16 Percents - Handling the Part (pages 50)

$$1. C$$

$$50\% \text{ of } \$9.00 = 0.5 \times 9 =$$

$$\begin{array}{r} 9.0 \\ \times 0.5 \\ \hline \$4.50 \end{array}$$

$$2. J \quad 70\% \text{ of } 54 = 0.7 \times 54 =$$

$$\begin{array}{r} 2 \\ 54 \\ \times 0.7 \\ \hline 37.8 \end{array}$$

$$3. A \quad 40\% \text{ of } 90 = 90$$

$$\begin{array}{r} \times 0.4 \\ \hline 36.0 \end{array}$$

$$4. G \quad 100\% \text{ of } 76 = 1 \times 76 = 76$$

$$5. D \quad 80\% \text{ of } \$10 = 0.8 \times 10 =$$

$$\begin{array}{r} 10 \\ \times 0.8 \\ \hline \$8.00 \end{array}$$

+ OVER →

KEY

Multiplying three or more numbers

When multiplying, simply multiply from left to right, changing the sign as needed.

Examples:

$$-2 \times 5 \times -1 = 10$$

$$6 \times -2 \times -2 = 24$$

$$-4 \times -1 \times -3 = -12$$

$$3 \times 2 \times -3 = -18$$

Practice problems:

1. $-2 \times 5 \times 5 = -50$

2. $3 \times 1 \times -1 = -3$

3. $7 \times -2 \times 2 = -28$

4. $-5 \times -1 \times -3 = -15$

5. $9 \times -3 \times -1 = +27$ or just 27

*SAM's Quiz
on All of Integers
+/-/x/=*

Choose the correct answer for each problem.

Sample:

$-1 + 1 =$

- A -2
- B 2
- C 1
- D 0
- E None of these

A B C D E

- 1 $3 + -4 =$
- A 7
 - B -7
 - C -1
 - D 0
 - E None of these

- 2 $-15 - 2 =$
- F -13
 - G -17
 - H 13
 - J 17
 - K None of these

- 3 $12 + -1 + -1 =$
- A -10
 - B -14
 - C 10
 - D 14
 - E None of these

- 4 $3 - -1 =$
- F 4
 - G 2
 - H 3
 - J -4
 - K None of these

- 5 $-2 + -3 =$
- A 6
 - B 1
 - C -1
 - D -6
 - E None of these

- 6 $42 + -1 =$
- F 43
 - G 41
 - H -43
 - J -41
 - K None of these

- 7 $6 - 8 =$
- A -2
 - B 2
 - C -6
 - D -1
 - E None of these



8 $-6 \div 2 =$
F 3
G -3
H 4
J -4
K None of these

9 $|3 + -4| =$
A 7
B -7
C 1
D -1
E None of these

10 $-63 - 3 =$
F 21
G -21
H 12
J -12
K None of these

11 $3 - 2 - -1 =$
A 2
B 5
C 6
D 0
E None of these

12 $\frac{-92}{-4} =$
F -23
G -21
H 21
J 23
K None of these

13 $-2 - -5 =$
A -3
B 3
C 7
D -7
E None of these

14 $|-12 + 5| =$
F 17
G -8
H 7
J 8
K None of these

15 $-54 - -2 =$
A 26
B 27
C -26
D -27
E None of these

16 $-94 - -12 =$
F -86
G 86
H -82
J 82
K None of these

17 $-25 - 13 =$
A 12
B -32
C -12
D -38
E None of these



Answer
KEY

Choose the correct answer for each problem.

Sample:

$$-1 + 1 =$$

- A -2
- B 2
- C 1
- D 0
- E None of these

(A) (B) (C) ● (E)

- 1 $3 + -4 =$
- A 7
 - B -7
 - C -1
 - D 0
 - E None of these

- 2 $-15 - 2 =$
- F -13
 - G -17
 - H 13
 - J 17
 - K None of these

- 3 $12 + -1 + -1 =$
- A -10
 - B -14
 - C 10
 - D 14
 - E None of these

- 4 $3 - -1 =$
- F 4
 - G 2
 - H 3
 - J -4
 - K None of these

- 5 $-2 + -3 =$
- A 6
 - B 1
 - C -1
 - D -6
 - E None of these

- 6 $42 + -1 =$
- F 43
 - G 41
 - H -43
 - J -41
 - K None of these

- 7 $6 - 8 =$
- A -2
 - B 2
 - C -6
 - D -1
 - E None of these



8 $-6 - 2 =$
 F 3
 G -3
 H 4
 J -4
 K None of these

9 $|3 + -4| =$
 A 7
 B -7
 C 1
 D -1
 E None of these

10 $-63 - 3 =$
 F 21
 G -21
 H 12
 J -12
 K None of these

11 $3 - 2 - -1 =$
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 B 5
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