

Math 101A - Arzt ANSWER KEY

Section

- 1.3 1) The answer to an addition problem is called the SUM.
 2) The answer to a subtraction problem is called the difference.
 3) The answer to a multiplication problem is called the product.

4) False Adding with real numbers with same sign - ADD ab.val

5) False $-3 - 10 = -3 + (-10)$

6) False Quotient of two negative numbers is positive

23) $74 + (-13) + (-23) + 5 = 43$

$$\begin{array}{r} 74 \\ -13 \\ \hline 61 \\ \quad 38 \\ \hline 43 \end{array}$$

24) $-34 + 46 + (-12) + 72 = 72$

$$\begin{array}{r} 46 \\ -34 \\ \hline 12 \\ \quad 12 \\ \hline 0 \\ \quad 72 \\ \hline 72 \end{array}$$

26) $34\frac{1}{8}$
 61) $\frac{1}{8}$

27) $-125\frac{1}{3}$
 64) $-\frac{1}{3}$

79) $-4 \cdot 18 = -72$

$$\begin{array}{r} 3 \\ 18 \\ \times 4 \\ \hline -72 \end{array}$$

80) $7 \cdot (-15) = -105$

$$\begin{array}{r} 5 \\ -15 \\ \times 7 \\ \hline -105 \end{array}$$

81) $-16 - (-76) = 60$

$$\begin{array}{r} -16 + 76 \\ 76 \\ -16 \\ \hline 60 \end{array}$$

82) $87 - 19 = 68$

$$\begin{array}{r} 87 \\ -19 \\ \hline 68 \end{array}$$

83) $-9 \cdot (-19) = 171$

$$\begin{array}{r} 19 \\ \times 9 \\ \hline 171 \end{array}$$

84) $7 \cdot 209 = 1463$

$$\begin{array}{r} 209 \\ \times 7 \\ \hline 1463 \end{array}$$

85) $\frac{120}{-8} = -15$

$$\begin{array}{r} 15 \\ -8 \overline{)120} \\ \underline{8} \\ 40 \\ \underline{40} \\ 0 \end{array}$$

86) $\frac{-156}{-26} = 6$

$$\begin{array}{r} 6 \\ -26 \overline{)156} \\ \underline{156} \\ 0 \end{array}$$

$$87) -98 + 56 = -42$$

$$\begin{array}{r} 98 \\ -56 \\ \hline 42 \end{array}$$

$$88) 103 + (-66) = 37$$

$$\begin{array}{r} 103 \\ -66 \\ \hline 37 \end{array}$$

1.3 Cont

$$89) \frac{75}{1 \cdot 201} = \frac{15}{4}$$

$$\frac{75}{20} = \frac{15 \cdot 5}{4 \cdot 8} = \frac{15}{4}$$

$$90) \frac{|-42|}{12} = \frac{7}{2}$$

$$\frac{42}{12} = \frac{9 \cdot 6}{2 \cdot 6} = \frac{7}{2}$$

$$91) |-14| + |-26| = 40$$

$$14 + 26$$

$$\begin{array}{r} 26 \\ +14 \\ \hline 40 \end{array}$$

$$92) |-10| + (-62) = -52$$

$$10 - 62 =$$

$$\begin{array}{r} 62 \\ -10 \\ \hline 52 \end{array}$$

$$93) |-389| - 627 = -238$$

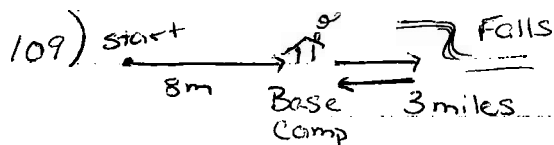
$$389 + -627$$

$$\begin{array}{r} 389 \\ -627 \\ \hline -238 \end{array}$$

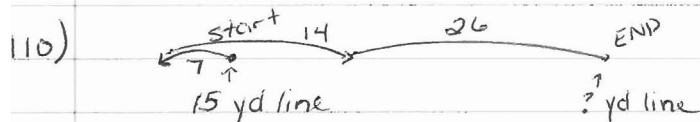
$$94) |-193| - (-20) = 213$$

$$193 + 20$$

$$\begin{array}{r} 193 \\ +20 \\ \hline 213 \end{array}$$



$$8 + 3 + 3 = 14 \text{ miles}$$



$$15 - 7 + 14 + 26 = 48$$

48 yard line

$$111) \begin{array}{r} 563 \text{ (Start)} \\ -46 \text{ (Home Depot)} \\ \hline 517 \text{ (New Balance)} \\ +233 \text{ (Deposit)} \\ \hline 750 \text{ (New Balance)} \\ -63 \text{ (Vons)} \\ \hline 687 \text{ (New Balance)} \\ -32 \text{ (Petco)} \\ \hline 655 \text{ (Final Balance)} \end{array}$$