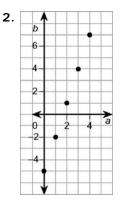
ML8 Chapter 10 Warm-Up Answers

BLM 10-3 Chapter 10 Warm-Up

Section 10.1

1.					
а	0	1	2	3	4
b	-5	-2	1	4	7



3. Yes, it is a linear relation. The difference in consecutive values of a is the same, and the difference in consecutive values of b is the same. Also, the points on the graph lie along a straight line. **4**. y = 155. 17.5 km **6**. $9 \times 1 = 9$, $-9 \times (-1) = 9$, $3 \times 3 = 9$, -3 \times (-3) = 9 **7**. $45 \div 1 = 45, 45 \div (-1) = -45,$ $45 \div 3 = 15, 45 \div (-3) = -15,$ $45 \div 5 = 9, 45 \div (-5) = -9,$ $45 \div 9 = 5, 45 \div (-9) = -5,$ $45 \div 15 = 3, 45 \div (-15) = -3,$ $45 \div 45 = 1, 45 \div (-45) = -1$ **8**. $6 \times 30 = 180 \text{ cm}^3$ **9**. $(6 \times 20) + (6 \times 8) = 120 + 48 = 168 \text{ cm}^2$ **10**. Answers may vary. Example: $9^2 = 81$, $10^2 = 100, \sqrt{95} \approx 9.7$ Section 10.2 **1**. -3t = -12**2**. – 3 **3**. *t* = 4 **4**. *b* = 75 **5.** Left Side = $\frac{-b}{5}$ Right Side = -15 $=\frac{-75}{5}$ = -15

Left Side = Right Side 6. Answers will vary. Example: $r^2 = 64, 64 \approx 60, 60 \times 3 = 180$ $100 \times 80 + 80 \times 80 = 8000 + 6400$ $= 14\ 400\ \text{cm}^3$ 7. $\frac{6}{20} = \frac{3}{10}$

8. $\frac{3}{2}$ **9**. 1 **10**. 14 Section 10.3 **1**. *z* = 4 **2**. Left Side = 3z + 3Right Side = 15= 3(4) + 3= 15 Left Side = Right Side 3. a) Subtract 3 from both sides of the equal sian. b) Add 6 to both sides of the equal sign. **4**. **a**) *n* = −5 Left Side = 28Right Side = -5n + 3= -5(-5) + 3= 28 Left Side = Right Side **b)** *r* = 18 Left Side = 3r - 6Right Side = 48 = 3(18) - 6= 48 Left Side = Right Side 5. No, the difference in consecutive values of b is the same, but the difference in consecutive values of a is not the same. **6**. 333%, $3\frac{1}{3}$ **7**. 5.24, 5 $\frac{6}{25}$ 8. 0.375, 37.5% 9.3 **10.** a) $10^2 = 100$, $11^2 = 121$, $\sqrt{116} \approx 10.8$ **b)** $5^2 = 25, 6^2 = 36, \sqrt{32} \approx 5.7$ Section 10.4 **1**. *x* = 45 2. a) Subtract 4 from both sides of the equal sian. b) Subtract 6 from both sides of the equal sign. **3.** a) Multiply both sides of the equal sign by -2. **b)** Multiply both sides of the equal sign by -7. **4**. **a**) *p* = −16 Left Side = $\frac{p}{-2} + 4$ Right Side = 12 $=\frac{-16}{-2}+4$ = 8 + 4= 12 Left Side = Right Side **b)** *t* = 196 Right Side = $\frac{t}{-7}$ + 6 Left Side = -22 $= \frac{196}{-7} + 6$ = -28 + 6= -22

Left Side = Right Side

5. a) Answers will vary. Example: Apples seem to sell the best because they have the longest line on the pictograph.

b) Answers will vary. Example:

Fruit Sales in One Day

