

Chapter 11 BLM Answers

BLM 11-2 Solving Equations

- a) 90 b) 1.7 c) 6 d) 5 e) 3
- Answers will vary. For example: Victor's van travels 2 km/min (20 km/10 min). Sharon's sedan travels 2 km/min as well (50 km/25 min). They will arrive at Point A at the same time (10 min).
- a) 81 cm^2 b) 9 cm c) $12 \times 9 = 108 \text{ cm}$
- a) The number increases by 2 each time.
b) Look for a set of 4 figures as follows:
Figure 1: 3 shapes; Figure 2: 5 shapes;
Figure 3: 7 shapes; Figure 4: 9 shapes.
- a) The number increases by 3 each time.
b)

Figure	1	2	3	4
Number	1	4	7	10
- c) Look for a graph with the following coordinates: (1, 1), (2, 4), (3, 7), and (4, 10).

BLM 11-3 Section 11.1 Extra Practice

- a) equation b) expression
c) expression d) equation
- a) $4n - 3$ b) $6 + n = 9$ c) $7n - 8 = 13$
d) $3n = 15$ e) $n \div 2; \frac{n}{2}$ f) $2n - 5 = 7$
- 3.

Expression	Variables	Numerical Coefficients	Constants
a) $5a + 14$	a	5	14
b) $7 - b$	b	-1	7
c) $11 - 7n - 4m$	n, m	-7, -4	11
d) $1 + \frac{n}{4}$	n	$\frac{1}{4}$	1

BLM 11-5 Section 11.2 Extra Practice

- a) $x = 5$ b) $y = 17$ c) $w = 9$ d) $t = 21$
- a) Subtract 6 from each side.
b) Add 7 to each side.
c) Add 16 to each side.
d) Subtract 8 from each side.
- a) $x - 3 + 3 = 15 + 3; x = 18$
b) $y - 7 + 7 = 20 + 7; y = 27$
c) $19 - 12 = 12 - 12 + b; b = 7$
d) $23 - 6 = 6 - 6 + c; c = 17$
e) $25 + 8 = d - 8 + 8; d = 33$

BLM 11-7 Section 11.3 Extra Practice

- a) 4 b) 3 c) 5 d) 10 e) 12 f) 16
- a) $x = 5$ b) $y = 7$
- a) 3 b) 5 c) 10 d) 7 e) 11 f) 2
- a) $w = 15$ b) $t = 24$

BLM 11-9 Section 11.4 Extra Practice

- a) Subtract 6. b) Subtract 5.
c) Add 8. d) Add 6.
- a) $x = 9$ b) $n = 4$ c) $h = 3$ d) $x = 11$
- a) $a = 5$ b) $c = 2$ c) $n = 3$ d) $m = 5$

BLM 11-11 Chapter 11 Test

- EQ 2. EX 3. EX 4. EQ
- EQ 6. EX 7. C 8. A
- Connie's age = $2a + 3$
- Mark is not correct. Answers may vary.
For example: Mark added instead of multiplied 5 and 3, so he made a computation error. Left Side = 9; Right Side = $5(3) - 6 = 15 - 6 = 9$; Left Side = Right Side, so $n = 3$.
- a) $m = 6$ b) $a = 6$ c) $c = 18$
d) $x = 13$ e) $k = 14$ f) $w = 60$
- a) $x = 4$ b) $x = 1$ c) $n = 7$
- a) $x + 5$ b) $3x - 8$ c) $2x + 8$ d) $6x - 3$
- Answers may vary. Ensure students draw a picture that correctly represents $4x - 3 = 5$.
- a) $4x + 13 = 185$
b) $x = 43$; Left Side = $4(43) + 13 = 172 + 13 = 185$; Right Side = 185; Left Side = Right Side
- a) $12 = 2x - 6$ b) $x = 9$
c) Ensure diagram accurately represents the equation. d) $x = 3$