

Algebra Unit 2--Relations and Functions Study Guide Answer Section

- 1 ANS: A REF: Lesson 1-6
 2 ANS: A REF: Lesson 1-6
 3 ANS: A REF: Lesson 1-6
 4 ANS: B REF: Lesson 1-7
 5 ANS: A REF: Lesson 1-7
 6 ANS: C REF: Lesson 1-7
 7 ANS: D REF: Lesson 1-7
 8 ANS: A REF: Lesson 4-7

9 ANS: C

10 ANS: D

11 ANS:
 $\{-4, -2, -1, 1, 4\}$

12 ANS: B

13 ANS: B

14 ANS: B

15 ANS: A

16 ANS:

$-48, 96, -192$

$$\frac{6}{-3} = -2, \frac{-12}{6} = -2, \frac{24}{-12} = -2$$

$$24 \times -2 = -48, -48 \times -2 = 96, 96 \times -2 = -192$$

REF: Lesson 9-8

17 ANS:

$$2\frac{1}{2}$$

$$a_6 = 80\left(\frac{1}{2}\right)^{6-1}$$

$$a_6 = 80\left(\frac{1}{2}\right)^5$$

$$a_6 = 80\left(\frac{1}{32}\right)$$

$$a_6 = 2\frac{1}{2}$$

REF: Lesson 9-8

18 ANS:

885,735

$$a_{12} = 5(3)^{12-1}$$

$$a_{12} = 5(3)^{11}$$

$$a_{12} = 5(177,147)$$

$$a_{12} = 885,735$$

REF: Lesson 9-8

19 ANS:

23, 15, 7

REF: Lesson 3-5

20 ANS:

19,683

21 ANS:

$$a_n = -2 \cdot (-4)^{n-1}$$

22 ANS:

$$-\frac{1}{2}$$

23 ANS:

yes, -5

REF: Lesson 3-5

24 ANS:

17

REF: Lesson 1-7

25 ANS:

-5

REF: Lesson 1-7