**Math Algebra 8_1**

Student Name:_____          Date:_____

**1.**

$$y = x - 7$$

$$x = 4$$

$$y = \underline{\ \ \ }$$

**A.** 3

**B.** −3

**C.** 4

**2.**

Ann reads 10 pages of her book every day.

She reads 2 more pages in every free minute.

She has 12 free minutes today.

How many pages does she read today?

**A.** 24

**B.** 22

**C.** 34

**3.**

$$x + 5y = 28$$

$$2x + 3y = 21$$

Solve for x and y.

**A.** x = 6, y = 1

**B.** x = 3, y = 5

**C.** x = 8, y = 4

**4.**

Which line has a slope of 3 and a y−intercept of 4?

**A.** y = 4x + 3

**B.** y =−3x − 4

**C.** y = 3x + 4

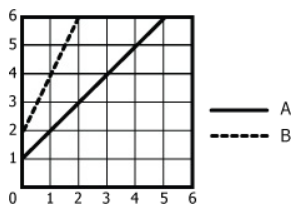**5.**

Which is parallel to y = 8x + 4?

**A.** y = 4x + 8

**B.** y = 12x

**C.** y = 8x − 4

**6.**

slope = 1

y−intercept = 5

Which fits?

**A.** y + x = 5

**B.** y = x + 5

**C.** y = 5x + 1

**7.**



Which fits Line B?

**A.** y = 2x + 2

**B.** y = $\frac{1}{2}$x + 1

**C.** y = $\frac{1}{2}$x + 2

**8.**

slope = 5

y−intercept = 3

Which fits?

**A.** y = 3x + 5

**B.** y = 5x + 3

**C.** y = 3x − 5

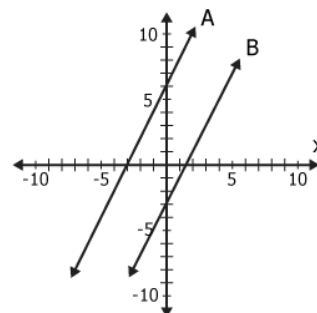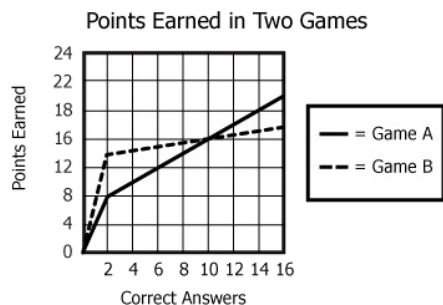**9.**

$y = 12x - 6$

y−intercept = ___

A. 6

B. −6

C. 12

**10.**



Which fit these lines?

A. $y = 2x + 3$
$y = -2x - 3$

B. $y = 2x + 6$
$y = -2x - 3$

C. $y = 2x + 6$
$y = 2x - 3$

**11.**

Points Earned in Two Games



— = Game A
-- = Game B

Which game has more points per answer after 10 correct answers?

A. Game A

B. Both the same

C. Game B

**12.**

| x | y |
|---|---|
| -1 | -4 |
| 0 | -3.5 |
| 1 | -3 |
| 2 | -2.5 |
| 3 | -2 |
| 4 | -1.5 |

What is the y−intercept?

A. −3.5

B. −4.0

C. 0.5

**13.**

$$\text{slope} = \frac{y2 - y1}{x2 - x1}$$

A line has points (5, 12) and (7, 16).

slope = ___

**A.** 2

**B.** 4

**C.** 5

**14.**

y = 2x + 5

x + y = 8

Where do the lines intersect?

**A.** (−1, 7)

**B.** (1, 7)

**C.** (8, 1)

**15.**

y = 4x − 20

y−intercept = ___

**A.** 4

**B.** 20

**C.** −20

**16.**

| x | y |
|---|---|
| 0 | 1 |
| 1 | 4 |
| 2 | 7 |
| 3 | 10 |

Which fits?

**A.** y = 3x + 1

**B.** y = x + 3

**C.** $y = \frac{3}{x} + 1$