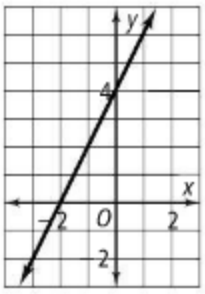
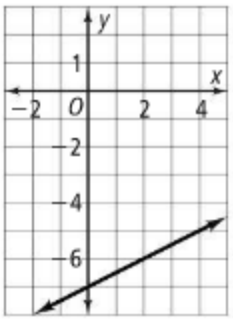
2.4 #s 8-22

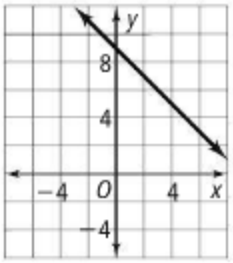
**8.**



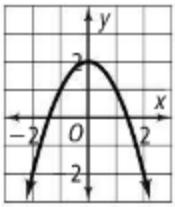

**9.**




**10.**



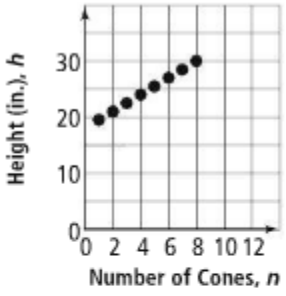

**11.**




**12. a.**

| *n* | *h* |
|---|---|
| 1 | 19.5 |
| 2 | 21 |
| 3 | 22.5 |
| 4 | 24 |
| 5 | 25.5 |
| 6 | 27 |
| 7 | 28.5 |
| 8 | 30 |

**b.**




**13.** discrete

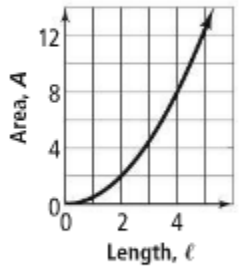
**14.** continuous

**15.** The graph should not be discrete; connect the points with a line so the graph is continuous.

**16.** No; the graph is continuous over the appropriate values of $d$ and $t$.

**17.** No; when you substitute the values $x = 2$ and $y = 2\frac{1}{2}$ in $y = x + 2$, you do not get a true statement.

**18.**

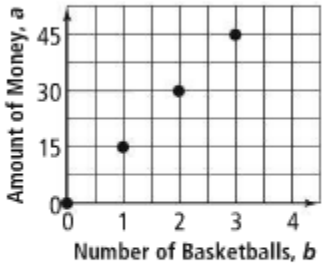



Continuous; lengths and areas can be any number.

**19.** B

**20. a.**

| *b* | 0 | 1 | 2 | 3 |
|---|---|---|---|---|
| *a* | 0 | 15 | 30 | 45 |




Discrete; you can only have whole numbers of basketballs.

**b.** 8

**21.** about 3 or 4 pickle chips

**22.** between 2 and 3 s