

Algebra 1 (Lesson 3.3)

1. (A) Independent: expenses

Dependent: total cost

(B) Independent: area

Dependent: price

(C) Independent: distance

Dependent: time

(D) Independent: size of carton

Dependent: number of items

2. $f(x) = 7x$

3. Independent: hours

Dependent: money

$f(x) = 50x$

$f(6) = 5(6)$

$= 300 \text{ dollars}$

4. Independent: miles

Dependent: money

$f(x) = 3.5x + 75$

$f(30) = 3.5(30) + 75$

$= 180 \text{ dollars}$

5. Independent: pounds

Dependent: money

$f(x) = 4.75p$

$f(5) = 4.75(5)$

$= 23.75 \text{ dollars}$

6. Independent: bundles

Dependent: total charge

$f(x) = 10.95x + 15$

$f(8) = 10.95(8) + 15$

$= 102.60 \text{ dollars}$

7. Independent: DVD's

Dependent: cost

$f(x) = 17.75x$

$f(5) = 17.75(5)$

$= 88.75 \text{ dollars}$

8. Independent: cars purchased

Dependent: money

$f(x) = 2000x + 150$

$f(13) = 2000(13) + 150$

$= 26,150 \text{ dollars}$