

# POW ANSWER KEY

## Ratios & Proportional Reasoning

POW 1:

Part A: \$68.40 per band member

Part B: 456 concert tickets

POW 2:

1. greater than

2. equal to

3. less than

4. equal to

POW 3:

Part A: Yes, the graph is proportional

Part B: Mr. David earned \$90 in 3 hours

Part C: \$300 dollars in 10 hours

POW 4:

Part A: 5 miles

Part B: 20 minutes

Part C: 12.5 mph

POW 5:

Part A: \$0.18/oz

Part B: large size

Part C: Coupon I

## Percents

POW 6:

Part A: incorrect

Part B: \$27.00

POW 7:

Part A: \$18.02

Part B: \$23.00

POW 8:

Part A:  $2\frac{1}{2}$  quarts

Part B: 0.65¢ per candle

Part C: 150 candles

POW 9:

Part A: 29 minutes

Part B: 85%

Part C: 70 shots

POW 10:

Part A: 22.5 meters

Part B: 15%

## Integers & Rational Numbers

POW 11:

Passed Inspection: A, D

Failed Inspection: B, C

POW 12:

Part A: -25

Part B: 25

Part C: -49

Part D: Yes, it is rational

POW 13:

Part A: 61.52 seconds

Part B: 59.76 seconds

POW 14:

Part A:  $\frac{1}{4}$

Part B:  $\frac{13}{20}$

Part C:  $\frac{7}{20}$

Part D: 27 members

POW 15:

Part A: -4

Part B: -3.5

Part C: -8

## Expressions, Equations & Inequalities

POW 16:

1. B

2. D

3. A

4. C

POW 17:

Part A:  $c = 5k + 6$

Part B:  $x = -20$

POW 18:

Part A: C

Part B: A

POW 19:

Part A: B

Part B: D

Part C: B

POW 20:

Part A: \$7.60

Part B:  $2.50x + 2.60 = 9.60$

Part C: 2.8 miles

Part D:  $2.50x + 2.60 \geq 12$ ;  $x \geq 3.76$