

EPIC High School North
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 Issue Date: 12/12/2019

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 MAT Quantitative Reasoning

$8 \frac{104}{212} = .49$

1. $\frac{14+4=18}{212 \text{ racers}}$ $\frac{8.49\%}{100}$ $\frac{212}{100} \times 180 = 1696$ $\frac{180}{104}$
 8.49% of racers didn't complete the race

2. $\frac{\$8}{\$50}$ $\frac{16\%}{100}$ $50 \overline{) 800}$ $\frac{16\% \text{ tip}}{50}$
 $\frac{300}{300}$

3. $\frac{\$575}{250}$ $\frac{23\%}{100}$ $100 \overline{) 5750}$ $\frac{57.5}{500}$ $\frac{750}{700}$ $\frac{50}{50}$
 \$57.50 of VAT added.

6. $1,253\% \leftarrow 100\%$
 $\$313,490 \leftarrow \$25,019.15$
 Original
 $(1253/100)X = 313,490$
 $X = 313,490 (100/1253)$
 $X = 25,019.15$
 Original goal \$25,019.15
 32% increase

7. $3250 \rightarrow 4300$ $\frac{210}{4,300}$ $\frac{1,050}{3,250}$ $\frac{32.3\% \text{ increase}}{100}$
 $\frac{1,050}{1,050}$ $1,050,000 \div 3250$

22.45% decrease

8. 147 mil
 $\underline{-114 \text{ mil}}$

$$\frac{33 \text{ mil}}{147 \text{ mil}} = \frac{22.4489}{100}$$

33 mil decrease

27. 10 lbs of potatoes for \$4.00
0.40¢ per pound

28. Ran 1500 meters in 4 min 45 seconds

285 seconds

$$1500 / 285 = 5.26 \text{ m/seconds}$$

$$285 \overline{) 5.75} = .26$$

29. $2 \times 3 = 6$
 $5 \times 3 = 15$

X = 15

30. $n = 16$
 $5n = 20$

n = 4

31. 2 eggs, 1 cup flour, 1 cup of milk

5 eggs

$$\frac{2 \times 2.5}{1 \times 2.5} 5$$

2 and half cups of flour for 6 eggs

32. $8 \text{ feet} \times 5 = 40 \text{ feet}$ \$70 for 40 feet of wood
 $\$14 \times 5 = \70

35. $8 \text{ feet} \times 12 = 96 \text{ inches}$ 1 foot = 12 inches

36. 6 Kilograms = 6000 grams
1 Kg = 1000 grams

37. \$2 per meter 3 Kilometer = \$6000 $\times 12 \times$

1 meter = 0.001 Km. $3 \div 0.001 = 3000 \text{ meters}$

38. 15 calories per teaspoon how many in one cup

$$48 \text{ teaspoons} = 1 \text{ cup}$$

$$48 \cdot 15 = 720$$

720 calories in one cup of sugar

39. Car driving at 100 km per hour 1 Km = 1,000 meters
1 hr = 60 minutes = $60 \times 60 = 3,600$ seconds
 $100,000 \text{ meters} \div 3,600 = 27.77 = 27.8 \text{ meters}$

39. 27.8 meters a second

$$27.8 \times 2 = 55.6 \text{ meters in 2 seconds}$$

40. 10 lbs per ft how much will 4 in

2 and a half pounds for 4 in

$$\frac{2 \frac{1}{2}}{4} = .5$$
$$4 \overline{) 10}$$
$$\underline{8}$$
$$2$$