

Warm Up Grade 8

Mar. 14, 2017 Finding the Percent Increase or Percent Decrease

Difference original x 100

* remember the original is always the first one**

1. The population of classes at UNB was 25 000 in 2011 has decreased over the past two years. In the first year the population decreased by 7%. In the second year the population decreased by 4% of the previous year's populations. What was the population in 2013?

2. If the regular cost of a shirt is \$25.60 and it is on sale for \$16.64 then what percent did you save? (HINT percent DECREASE)

Pop. in 693 660 + 166 320 2000 869 320

M 11% Increase in 2005 11% of 859 320 0.11 x 859320 94525,2

Pop in 2005 7 859 320 + 94525 953 845

C) Amt of Inc = 953 845 - 693 000 = 260 845

% Inc = $\frac{4mt}{0rig} \frac{4mt}{4mt} \times 100\%$ = $\frac{260.845}{693.660} \times 100\%$ = 0.376 × 100% = 37.6%

4)

14. 2005 Dec 6% of 15 194
0.06 x 15 194
2005 -> 15 194 -912
14 282
2006 Dec -> 4% of 14 282
571.28
2006 -> 143292 - 571

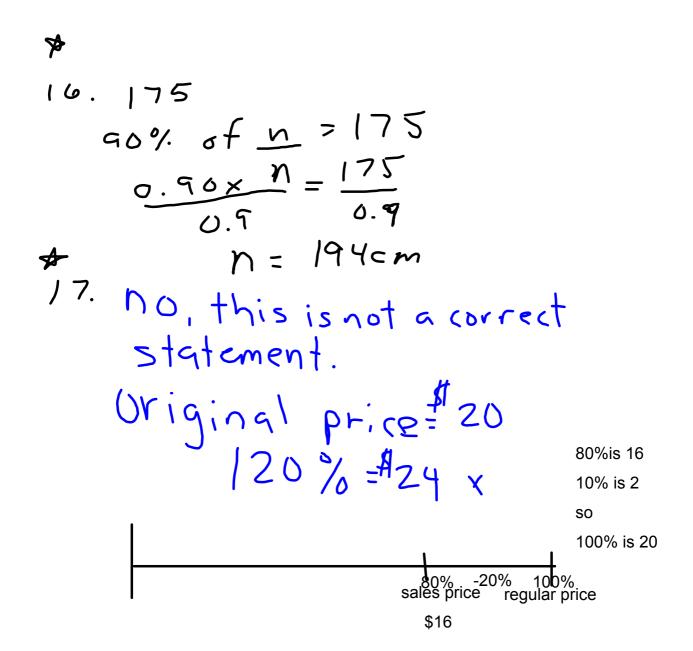
15. a)
$$150 = m_1 = 90\%$$
 of $cduH ht$
 90% of $n = 150 = m$
 $0.9 \times n = 150$
 $n = 1667cm$
 $n = 1667cm$
 $0.98 \times n = 176$
 $0.98 \times n = 176$

99. 90% of "final height" = 150
$$\frac{0.9}{0.9} \times n = \frac{150}{0.9}$$

$$n = 167 \text{ cm}$$

$$98\% \text{ final height} = 176$$

$$0.98 \times n = 176$$



for his calculations

Really is 16.67%

120% of sales price

120% x 16 =

1.2 x 16 = 19.20

19.20 - 16 = 3.2 x 100 = 16.6% 19.20 19.20

19.20 original

Extra Practice 1

1a)
$$24.5\% = 0.245 = 245 = 49$$
1000 200

1b) $24/5\% = 2.8\%$ 0.028 = $28 = 7$
1000 250

$$3a)$$
 $\underline{5}$ = $\underline{25}$ = 0.025 = 2.5% $3b)$ $\underline{3}$ = $\underline{1}$ = 0.02 = 2.% 200 1000 150 50

3c)
$$\underline{12}$$
 = $\underline{3}$ = 0.024 = 2.4% 3d) $\underline{9}$ = $\underline{3}$ = 0.03 = 3% 500 125 300 100

3e)
$$\underline{16}$$
 = $\underline{1}$ = 0.04 = 4% 3f) $\underline{12}$ = $\underline{6}$ = 0.048 = 4.8% 400 25 250 125

4a)
$$0.7\% = 0.007 = \underline{7}$$
 4b) $0.44\% = 0.0044 = \underline{44} = \underline{11}$ 10 000 2500

4c)
$$0.15\% = 0.0015 = \underline{15} = \underline{3}$$
 4d) $0.9\% = 0.009 = \underline{9}$ 10000

5g)
$$0.1875 = 1875 = 3 = 18.75\%$$
 5h) $0.0031 = 31 = 0.31\%$

Addison 81.25% Addison did better since she has a larger percentage

Team A had the lesser percent of its team present at the tournament.

Class / Homework



Extra Practice 3: Solving Percent Problems



160 students attended Music Night on Thursday.

Friday night's attendance was 120% of Thursdy

Friday = 120% of Thursday

Chandrinal X 160

= 192 Friday's attendance 192

Sat = 75% of Friday = 0.75 × 192

- 144

144 people attended on Saturday

Extra Practice 1 Relating Fraction, decimal and percent.pdf

Extra Practice 2 (Find the percent of a number).pdf

Extra Practice 3(% of a number is ...find the missing number, % increase or decrease).pdf