

Warm Up Grade 8

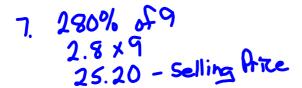


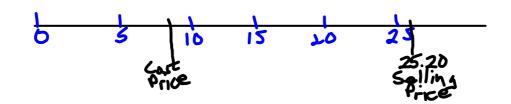
No Calculators

The grade 8 class put on a play on for the school on Wednesday and Thursday. If 80 people showed up for the play on Wednesday, how many showed up on Thursday if the attendance was 120% of Wednesday's attendance?

96 5 tudent attended Thursday.

PA246		
6.	Percent	Decimal
a) 1.7	170%	176 17 100 16
b) 3.3	33 <i>%</i>	330 33 100 b
د) 0.003	0.3%	<u>0.3</u> <u>3</u> 1000
	0.56%	0.56 <u>56</u> 100 10000
do 0.0056	0,00	





8. Giving 110% means putting more than expected into something.
-Thoing what is expected and more

9. a) 2 examples 7 100%

-> Everything correct on a test plus the bonus

-> The selling price of an item

selling price 250% of cost price

by 21%

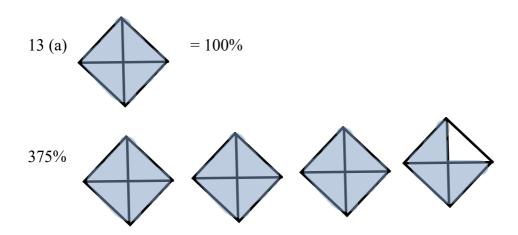
3 an increase in the dollar 0.25%

3 Chance of winning a price if

1000 tickets are sold 1 = 0.00/
1000 pro.1%

10. (a)
$$1/3 = 0.333...$$
 or 33.3%
 $2/3 = 0.666...$ or 66.7%
 $3/3 = 1.00$ or 100%
 $4/3 = 1.333...$ or 133.3%
 $5/3 = 1.666...$ or 166.7%
 $6/3 = 2$ or 200%

- (b) Pattern
- (c) 7/3 = 2.333... or 233.3% 8/3 = 2.666... or 266.7% 9/3 = 3 or 300% 10/3 = 3.333... or 333.3% 11/3 = 3.666... or 366.7% 12/3 = 4 or 400%
- 12. 0.8% of runners completed in 2 h 15 min
 0.8% of 618
 0.008 x 618
 4.994 or 5 runners completed the run in the time
- (b) Estimate
 1% of 600
 6
 estimate is close



14. (a) Juan 5 % of 2600 0.05 x 2600 130

New Population = 2600 + 130 = 2730

of new population 15% of 2730 0.15 x 2730 409.5 (or 410) Fin

Final Population = 2730 + 410 = 3140

(b) Jeremy 20 % of 2600 0.2 x 2600 520

Final Population = 2600 + 520 = 3120

(c) The answers are not the same. Who is Correct?

Juan used the correct method

- 15. 140 % of attendance on Friday1.40 x 120168 people attended on Saturday
- (b) Estimate 100 % + 50% 120 + 60 180
- 16. (a) 0.75 % of 1888 population 0.75 % of 2000

- (b) 0.75% of 2000 0.0075 x 2000 15
- (c) Decrease in Population 2000 15 1985
- 17. Number of girls who signed up 195 % of boys 1.95 x 20 39 girls signed up

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26 attended auditions \frac{26}{39} = 0.666... = 66.7 % of the signed up attended
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Percent Problems

There are 3 types of percent problems:

- finding the percent ex. 15 out of 30

$$\frac{15}{30} = 0.5 = 50\%$$

Top: Bottom = decimal

- finding the percent of a number

ex. 45% of 360 change to a decimal and multiply

- finding the number from a percent ex. 60% of a number is 72
- third type: Must rearrange

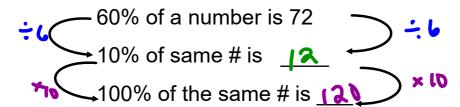
60% of a number is 72 Let n = the number

$$0.6 \times n = 72$$

$$\frac{0.6 \text{ n}}{0.6} = \frac{72}{0.6}$$

$$n = 120$$

or

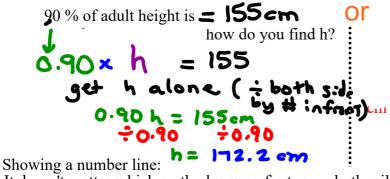


$$3x = 52.7$$
 $30\% \text{ of a number.}$
 $30\% \text{ o$

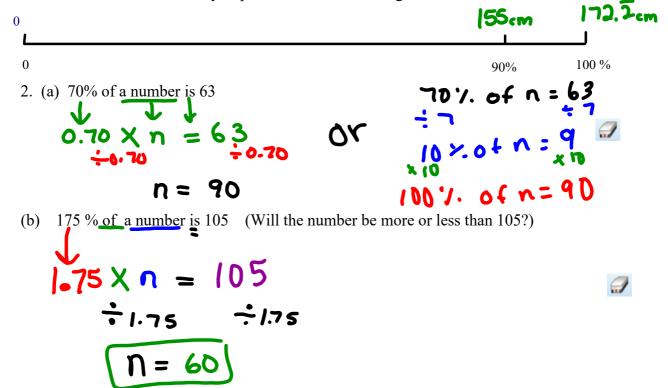
Examples:

heighte 13

1. Grady is 13 years old and 155 cm tall. His height at this age is about 90% of his final adult height. How tall I would you expect Grady's adult height to be?



It doesn't matter which method you prefer to use, both will give the same answer.



- 3. (a) A length of 30 cm increased by 40%. What is the new length?
 - (b) A mass of 50 g decreased by 17% What is the new mass?



New length =
$$30 + 12$$

= 42 cm

Homework pg.
$$252 \# 3,4,7$$

3a) $50\% \text{ of } n = 15$
 $0.50 \times n = 15$
 $0.15 \text{ } n = 125$

STOP