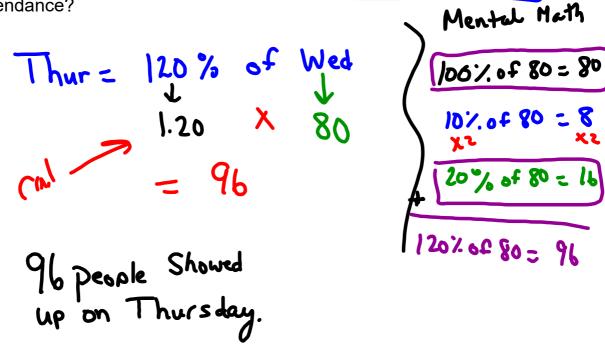


Warm Up Grade 8

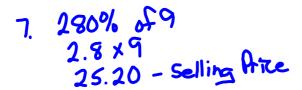


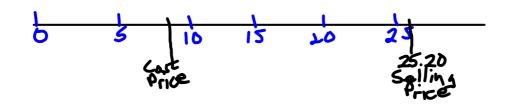
No Calculators

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?



PA246		
6.	Percent	Decimal
a) 1.7	170%	176 17 100 16
b) 3.3	33%	330 33 100 b
w 0.003	0.3%	<u>0.3</u> 700 1000
0, 0		0.56 <u>56</u>
do 0.0056	0,56%	100 10000





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%

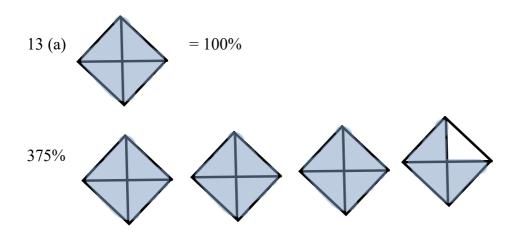
3 an increase in the dollar 0.25%

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

17 000 x 0.15 Save 15

\$ 25 50

17 000 - 25 50

\$ 14 450

+ +++

\$ 16 617.50

- 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

```
26 attended auditions

\frac{26}{39} = 0.666...
```

Percent Problems

There are 3 types of percent problems:

- finding the percent ex. 15 out of 30

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

- finding the percent of a number

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

 $0.45 \times 360 = 162$

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

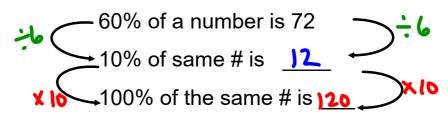
60% of a number is 72 Let n = the number

$$0.6 \times n = 72$$

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

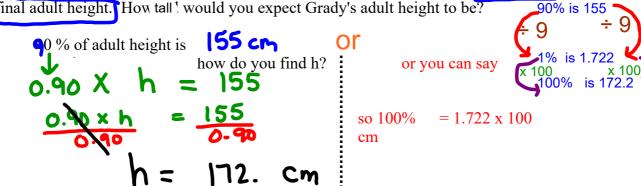
$$n = 120$$

or



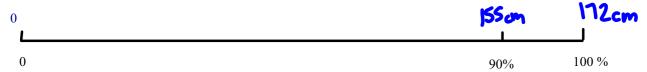
Examples:

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! would you expect Grady's adult height to be?



Showing a number line:

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



2. (a) 70% of a number is 63

$$0.7 \times n = 63$$

 $0.7 \times n = 63$
 $0.7 \quad 0.7$
 $n = 90$

(b) 175 % of a number is 105 (Will the number be more or less than 105?)

$$1.75 \times n = 105$$

- 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

All 'n" questions

Homework pg. 252 # 3,4, 7

Ja) 15% is 125g

Same as

15% of n is 125g

2.25 x n = 5

0.25

N=20 STOP