7th Grade
Jan 6, 2021

Today we will:

-review yesterday's WS
-take in-class notes
-begin Skills WS

HOMEWORK:

Skills WS

THQ due FRIDAY

ALEKS assignment:
60 min and 5 topics
due Jan 12

Independent Practice

Go online for Step-by-Step Solutions

Use the percent proportion to solve each problem. (Examples 1-3)

13. 4% of what number is 10? 250

14. 55% of what number is 22? 40

15 21 is what percent of 50? 42%

16. 16 is what percent of 64? 25%

17. What percent of 145 is 52.2? 36% $\frac{52.2}{145} = \frac{P}{100}$

18. What percent of 36 is 19.8? 55%

19. What is 60% of 120? 72

20. What is 80% of 125? 100

21. Find 65% of 440. 286

22. Find 83% of 200. 166

23. 12 is 40% of what number? 30

24. 34 is 20% of what number? 170

25. 80% of what number is 12? 15

26. 4% of what number is 15? 375

27. Sixteen of the 80 dogs at a kennel are golden retrievers. What percent of the dogs at the kennel are golden retrievers? (Example 4) 20%

$\frac{16}{80} = \frac{P}{100}$

28. The number of lime-flavored gumballs in a gumball machine is 85. If this is 17% of the number of gumballs in the machine, how many gumballs are in the machine? (Example 4) 500 gumballs

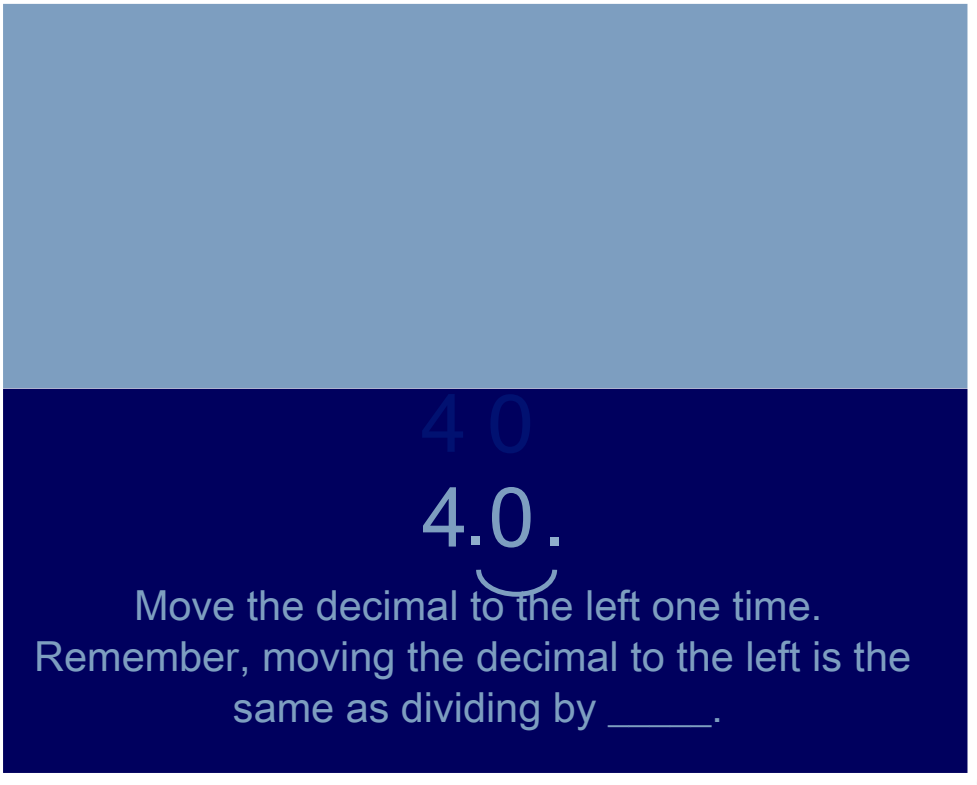
$\frac{85}{X} = \frac{17}{100}$

Percent Patterns

The 10% Method!

What is 10% of 40?

To answer this question, click the 40 and slowly drag it down.



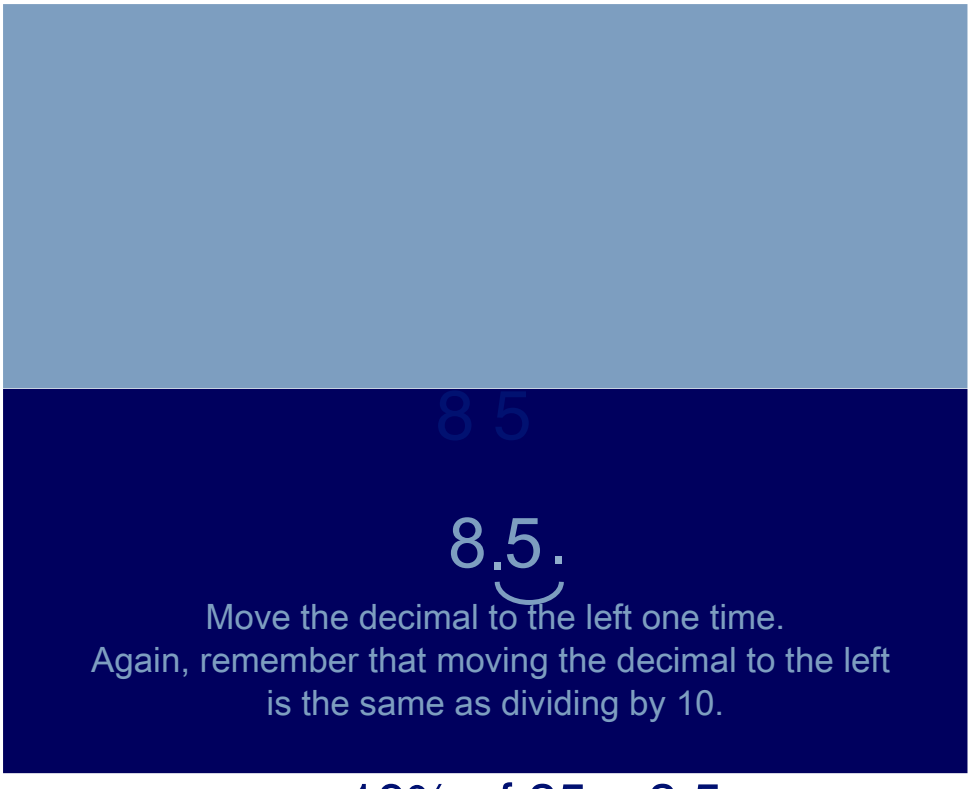
so 10% of 40 = 4.0 or 4

Percent Patterns

The 10% Method!

What is 10% of 85?

To answer this question, click the 85 and slowly drag it down.

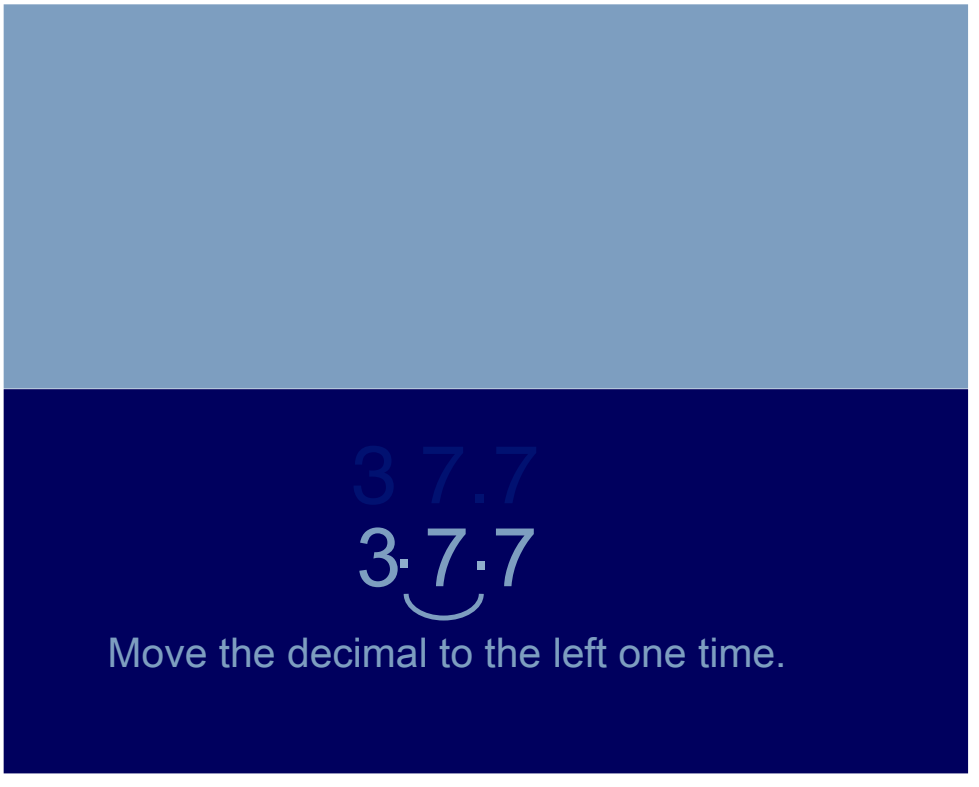


so 10% of 85 = 8.5

Percent Patterns

The 10% Method!

What is 10% of 37.7?



so 10% of 37.7 = 3.77

Percent Patterns

The 10% Method!

Turn to a partner and discuss what you think the pattern is for finding 10% of any number...

Percent Patterns

The 10% Method!

Now it is your turn to try these on your own:

10% of 20=

10% of 30=

10% of 70=

10% of 120=

10% of 4.5=

10% of 62=

Percent Patterns

The 10% Method!

In summary...

Why does the 10% method work?

- Turn to your partner and discuss!

Percent Patterns

The 10% Method!

Let's extend our thinking!

10% of 40=

5% of 40=

20% of 40=

45% of 40=

60% of 40=

100% of 40=

Hannah has a coupon for 20% off her entire clothing purchase. If the items she buys cost $110 originally, how much will she save with her coupon?

Think: I can find 10%, then double it.

10% of $110 is 110. = $11

So 20% = 2 × 10% = 2 × 11 = $22

Mr. Williams ordered 4 pizzas for a birthday party. The cost of the pizzas was $57.96. He wants to tip the delivery person about 15%. What is a reasonable amount for the tip?

Think: $57.96 is close to $60.
I can find 10%, then add half that.

10% of 60 is 6.0 = $6

so 5% = 10% ÷ 2 so 6 ÷ 2 = $3.

Then add 10% + 5% = 6 + 3 = $9 tip

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Estimate.

1 26% of 64

Think: 26% is close to 25 %, which is $\frac{1}{4}$

25% of 64

$\frac{1}{4}$ of $64 = \frac{1}{4} \times \frac{64}{1} = 16$

2 $\frac{2}{3}$% of 891

Think: 891 is close to 900.
I can find 1%, then take 2/3 of that.

1% of 900 is $900 \div 100 = 9$

$\frac{2}{3}$ of $9 = \frac{2}{3} \times \frac{9}{1} = 6$

3 39% of 81

Think: 81 is close to 80.
39% is close to 40 %, which is

$10\% \text{ of } 80 = 80 \div 10 = 8$

$40\% = 4 \times 10\% = 4 \times 8 = 32$

4 120% of 51

100+10+10

Think: 51 is about 50.
I know 100%, and I can find 20%.

$100\% \text{ of } 50 = 50$
$10\% \text{ of } 50 = 50 \div 10 = 5$
$10\% \text{ of } 50 = 50 \div 10 = 5$
$120\% \text{ of } 50 = 50 + 5 + 5 = 60$

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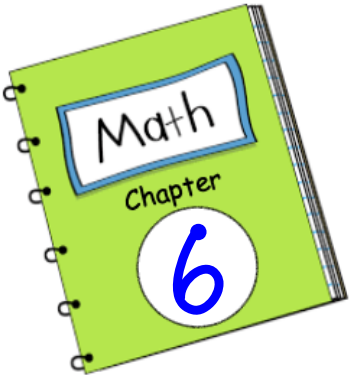

TITLE: Percents

Date	Lesson	Topic/Assignment
1-4	1	Using Percent Proportion Video Notes
1-5	1	HOMEWORK: HW Prac WS
1-5	1	CLASSWORK: Pg253 WS

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Lesson 2 Skills Practice

Find Percent of a Number Mentally

Find the percent of each number mentally.

1. 10% of 582

2. 50% of 86

3. 40% of 1500

4. 20% of 75

5. 15% of 20

6. 80% of 45

7. 30% of 120

8. 75% of 44

9. 5% of 40

10. $33\frac{1}{3}$% of 99

11. 60% of 450

12. $37\frac{1}{2}$% of 5

13. 25% of 480

14. 300% of 5

15. 150% of 82

16. $66\frac{2}{3}$% of 210

17. 125% of 800

18. 175% of 400

Estimate.

19. 28% of 19

20. 55% of 32

21. 87% of 158

22. 35% of 544

23. 42% of 495

24. 19% of 319

25. 65% of 73

26. 8% of 224

27. 83% of 9

28. 17% of 331

29. 78% of 14

30. 12% of 879

31. $\frac{1}{3}$% of 941

32. $\frac{1}{2}$% of 376

33. $\frac{1}{5}$% of 2052

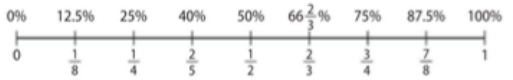
34. 164% of 318

35. 247% of 192

36. 508% of 1073

Find Percent of a Number Mentally

The number line shows some common percent-fraction equivalents.



Concept Summary Percent-Fraction Equivalents

$25\% = \frac{1}{4}$	$20\% = \frac{1}{5}$	$10\% = \frac{1}{10}$	$12\frac{1}{2}\% = \frac{1}{8}$	$16\frac{2}{3}\% = \frac{1}{6}$
$50\% = \frac{1}{2}$	$40\% = \frac{2}{5}$	$30\% = \frac{3}{10}$	$37\frac{1}{2}\% = \frac{3}{8}$	$33\frac{1}{3}\% = \frac{1}{3}$
$75\% = \frac{3}{4}$	$60\% = \frac{3}{5}$	$70\% = \frac{7}{10}$	$62\frac{1}{2}\% = \frac{5}{8}$	$66\frac{2}{3}\% = \frac{2}{3}$
$100\% = \frac{1}{1}$	$80\% = \frac{4}{5}$	$90\% = \frac{9}{10}$	$87\frac{1}{2}\% = \frac{7}{8}$	$83\frac{1}{3}\% = \frac{5}{6}$