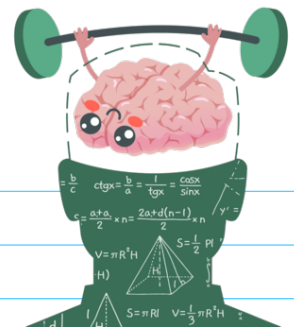


PERCENT of a NUMBER [MENTAL MATH]



DEAN NEEDS A NEW DOG BED - R4R4R4. THE ORIGINAL PRICE IS \$97.00 BUT IT IS ON SALE FOR 30% OFF. HOW MUCH WILL BE TAKEN OFF THE ORIGINAL PRICE?

Find 30 % of 97

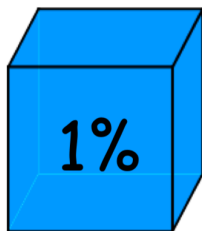
WHAT DOES IT MEAN TO FIND PERCENT OF A NUMBER?

- A NUMBER OUT OF 100
- PART OF A WHOLE

PART OF \$97

Mental Math: Use Building Blocks!

Example: Find 30 % of \$97



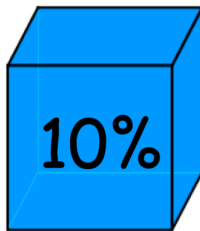
1%

→ DIVIDE BY 100

* MOVE DECIMAL 2 PLACES TO THE LEFT

Ex: 1% of \$97.0
= \$0.97

1% of 0.7
= 0.007



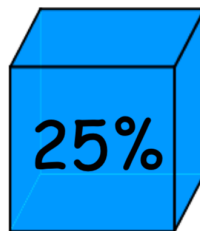
10%

→ DIVIDE BY 10

* MOVE DECIMAL 1 PLACE TO THE LEFT

Ex: 10% of \$97.0
= \$9.70

So...
\$9 × 3 = \$27 \$0.70 × 3 = \$2.10
= \$29.10



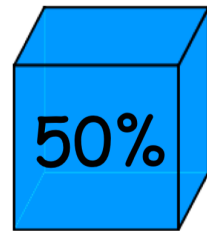
25%

→ DIVIDE BY 4
(OR DIVIDE 50% BY 2)

Ex: 25% of 600
= 150

(600 ÷ 2 ÷ 2 = 150)
(300)

25% of 9
= 2.25



50%

→ DIVIDE BY 2
* SPLIT IN HALF

Ex: 50% of 68
= 34

50% of 950 = 475

50% of 6.5 = 3.25

75% of \$42

50% + 25%

25% + 25% + 25%

1% 75x

100% - 25%

15 x 5%

50% + 25%

\$21

(1/2 of 50%)

\$10.50

\$21 + \$10.50 = \$31.50



Example: Ten students are buying Mr. Polsky a birthday present and are splitting the cost. They decide to buy ~~her~~ him a new bike for \$792.30, including tax.

What percent of the cost does each student pay?

100% of cost ÷ 10 students = 10% EACH

How much will each student pay?

10% of \$792.30

So... \$79.23/EACH

USE MENTAL MATH to find EACH PERCENT:

A) 75% of 16

25% + 25% + 25%
(16 ÷ 4) + 4 + 4 = 12

B) 40% of 80

10% x 4
(10% of 80 = 10) x 4 = 32

C) 150% of \$5

100% + 50%
\$5 + (1/2 of 5 = \$2.5) = \$7.50

D) 0.1% of \$1000

\$1000 ÷ 1000 = \$1