

Lesson 6 Reteach

Estimate with Percents

The table below shows some commonly used percents and their fraction equivalents.

Percent–Fraction Equivalents				
$20\% = \frac{1}{5}$	$50\% = \frac{1}{2}$	$80\% = \frac{4}{5}$	$25\% = \frac{1}{4}$	$33\frac{1}{3}\% = \frac{1}{3}$
$30\% = \frac{3}{10}$	$60\% = \frac{3}{5}$	$90\% = \frac{9}{10}$	$75\% = \frac{3}{4}$	$66\frac{2}{3}\% = \frac{2}{3}$
$40\% = \frac{2}{5}$	$70\% = \frac{7}{10}$	$100\% = 1$		

Examples

Estimate each percent.

1. 20% of 58

20% is $\frac{1}{5}$.

Round 58 to 60 since it is divisible by 5.

$\frac{1}{5}$ of 60 is 12.

So, 20% of 58 is about 12.

2. 76% of 21.

76% is close to 75% or $\frac{3}{4}$.

Round 21 to 20 since it is divisible by 4.

$\frac{3}{4}$ of 20 is 15.

So, $\frac{3}{4}$ of 20 is 3×5 or 15.

Thus, 76% of 21 is about 15.

Examples

Isabel is reading a book that has 218 pages. She wants to complete 25% of the book by Friday. About how many pages should she read by Friday?

25% is $\frac{1}{4}$. Round 218 to 220.

$\frac{1}{4}$ of 220 is 55.

So, Isabel should read about 55 pages by Friday.

Exercises

Estimate each percent.

1. 49% of 8

2. 24% of 27

3. 19% of 46

4. 62% of 20

5. 40% of 51

6. 81% of 32

7. **TIPS** Jodha wants to tip the pizza delivery person 20%. If the cost of the pizzas is \$15.99, what would be a reasonable amount to tip?