

Lesson 12 :

Nov 21, 2022

useful: Converting Fractions to Percentages . easy to read/compare

(and vice versa)

ex. Which mark is better?

Science Test:

Gym Test:

$100 \times 0.7 = \frac{100 \times 0.7}{100} = \frac{70}{100} = 70\%$   
 $\frac{14}{20} = 70\% = \frac{70}{100}$

$\frac{21}{35} = \frac{21 \div 7}{35 \div 7} = \frac{3}{5}$   
 $= 60\% = \frac{60}{100}$

Convert to %

ex.  $\frac{21}{35}$

$0.6 \times \frac{100}{100}$

$\frac{0.6 \times 100}{100}$

$\frac{60}{100}$

60%

Always works

Short way:  
Divide fraction into decimal  
a x by 100%

$\frac{14}{20} = 0.7 \times 100\% = \frac{70}{100}$   
 $= 70\%$

$35 \overline{) 210}$   
 $\underline{210}$   
 $0$

} rewrite as %

0.6  
0

ex. Convert to a Percentage

$\frac{14}{20} \times \frac{5}{5}$   
 $\frac{14 \times 5}{20 \times 5}$

$\frac{70}{100}$

70%

} %

long way  $\rightarrow$  sometimes work

step i. x the denominator by a # to get a 100.

step ii. Do same thing to top.

step iii. Rewrite the  $\frac{\quad}{100}$  as %.

$\frac{214}{70}$   
 $\times \frac{5}{5}$

You do pg

12.6 # 12.2

5 mins

Converting % to Fraction in Lowest Term

Which of the following are equivalent?

→ put everything in same form to compare

a) 65%

$$\frac{65}{100}$$

$$\frac{13}{20}$$

step i  
Read per cent and rewrite.

step ii  
simplify 1, 2, 3 times

(could check w calculator if in lowest terms)

b) 65.00 = 6500%

c) 0.65

d)  $\frac{13}{20}$

e)  $\frac{5}{6}$

\* no repeating decimals so easy to convert them to fraction.

place value  
• 100 m  
65 100ths  
 $\frac{65}{100}$

You do:

Which of following are equivalent?

Show your work.

a) 70%

b) 0.07

c)  $\frac{14}{20}$

d) 0.7

Converting Less standard % to fractions.

e.x. unemployment rate  
Convert to fraction:

7.8 %

← a decimal or

a % ?

$$\frac{7.8}{100} \times 10 \times 10$$

→ read + rewrite as  $\frac{\quad}{100}$

$$\frac{78}{1000} \begin{matrix} \div 2 \\ \div 2 \end{matrix}$$

→ eliminate the decimal  
 by x by fraction = 1.

$$\frac{39}{500}$$

→ simplify

⇒ ask the calculator if done.

irreducible.

You do: ex.

Property Tax (Real Estate)

0.76720%

a %

average price of a house in MTL

\$ 500,000

0.77 %

0.76722%

Convert to fraction:

$$\frac{0.77}{100} \times 100 \times 100$$

$$\frac{77}{10000}$$

(irreducible)

Converting Continued:

Convert to fraction:

$$9 \frac{3}{4} \%$$

a mixed #  
or a %?

$$9.75 \%$$

step 1: Convert to decimal.

$$\frac{9.75 \times 100}{100 \cancel{00} \times 100}$$

$$\frac{975}{10000}$$

$$\begin{array}{r} \div 25 \\ \div 25 \end{array}$$

$$\frac{39}{40}$$

calculator

Which of the following are  
Equivalent?

a)  $33 \frac{3}{11} \%$

b)  $33.2727\overline{27}$

c)  $0.337272\overline{72}$

d)  $\frac{183}{550}$

→ check w/ cal

→ show me work  
time

→ do rest of handouts  
for homework

→ last lesson time (lots of word questions, stp. soit  
à l'heure)