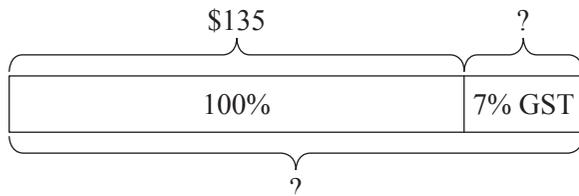


Percentage

EXAMPLE

The price of a dress is \$135 excluding 7% GST. Find the price of the dress after the 7% GST is included.

Solution:



We need to find the amount for 7% GST:

$$100\% \rightarrow \$135$$

$$1\% \rightarrow ?$$

$$\$135 \div 100\% = \$1.35$$

$$1\% \rightarrow \$1.35$$

$$7\% \rightarrow ?$$

$$\$1.35 \times 7 = \$9.45$$

Since the amount for 7% GST is \$9.45, we can find the price of the dress including the GST:

$$\$135 + \$9.45 = \$144.45$$

The price of the dress is **\$144.45**.

Adapted:

Conquer Model Drawing for Upper Primary Levels

© Singapore Asia Publishers Pte Ltd. All rights reserved.

Reproducible for home/classroom use only.

STRICTLY NOT FOR SALE.

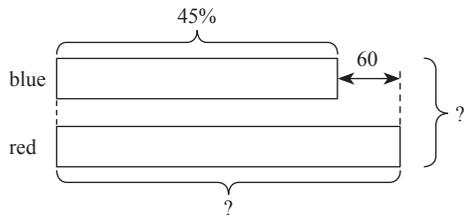
Look for other useful resources: www.sapgrp.com

- 3 Shop A sold a dress for \$126 after a discount of 25%. Shop B sold a similar dress at a discounted price of \$117.60. Find the percentage discount given by Shop B.

Solutions to:

Percentage

1.



First, find the percentage of red pens since 45% of the pens were blue:

Blue pens \rightarrow 45%

Red pens $\rightarrow 100\% - 45\% = 55\%$

Then, find the percentage difference between blue and red pens since there were 60 fewer blue pens than red pens:

$55\% - 45\% = 10\%$

Since we know that 10% represents 60 pens, we can find the number of pens represented by 1%:

10% \rightarrow 60 pens

1% \rightarrow ? pens

$60 \div 10 = 6$

Lastly, find the total number of blue and red pens:

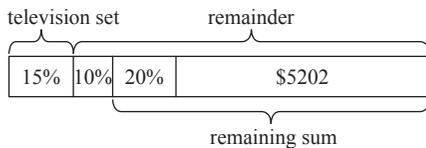
1% \rightarrow 6 pens

100% \rightarrow ? pens

$6 \times 100 = 600$

There were **600** pens altogether.

2.



For this question, we need to calculate backwards. First, find the cost of the dining table and chairs, followed by the washing machine and then the television set.

Since 20% was spent on the dining table and chairs, we can find the percentage for \$5202:

Percentage for the dining table and chairs \rightarrow 20%

Percentage for \$5202 $\rightarrow 100 - 20\% = 80\%$

We can also find the amount of money he had before he bought the dining table and chairs:

80% \rightarrow \$5202

1% \rightarrow ?

$\$5202 \div 80 = \65.025

100% \rightarrow ?

$\$65.025 \times 100 = \6502.50

Now, we can find the percentage for \$6502.50 since 10% was spent on the washing machine:

Percentage for the washing machine \rightarrow 10%

Percentage for \$6502.50 $\rightarrow 100 - 10\% = 90\%$

We can also find the amount of money he had before he bought the washing machine:

90% \rightarrow \$6502.50

1% \rightarrow ?

$\$6502.50 \div 90 = \72.25

100% \rightarrow ?

$\$72.25 \times 100 = \7225

Now, we can find the percentage for \$7225 since 15% was spent on the television set:

Percentage for the television set \rightarrow 15%

Percentage for \$7225 $\rightarrow 100 - 15\% = 85\%$

Lastly, we can find the amount of money he had before he bought the television set:

85% \rightarrow \$7225

1% \rightarrow ?

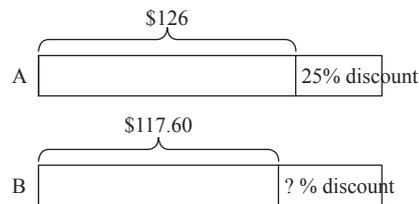
$\$7225 \div 85 = \85

100% \rightarrow ?

$\$85 \times 100 = \8500

He had **\$8500** at first.

3.



First, find the percentage in the sale price in Shop A since the percentage discount was 25%:

$100\% - 25\% = 75\%$

We can now find the price of the dress before the discount:

75% \rightarrow \$126

1% \rightarrow ?

$\$126 \div 75 = \1.68

100% \rightarrow ?

$\$1.68 \times 100 = \168

Then, find the percentage discount given by Shop B. We will take the original price of the dress minus the sale price of the dress sold in Shop B and then multiply by 100%:

Sale price \rightarrow \$117.60

% discount = ?

$\$168 - \$117.60 = \$50.40$

$\frac{\$50.40}{\$168} \times 100\% = 30\%$

The percentage discount given by Shop B was **30%**.

Adapted:

Conquer Model Drawing for Upper Primary Levels

© Singapore Asia Publishers Pte Ltd. All rights reserved.

Reproducible for home/classroom use only.

STRICTLY NOT FOR SALE.

Look for other useful resources: www.sagprp.com