

STUDENT 1: RAY

15. a) \$2528 ✓

b) \$1738 ✓

16. a) \$4305

b) \$3070

17. \$400 ✓

18. \$54 ✓

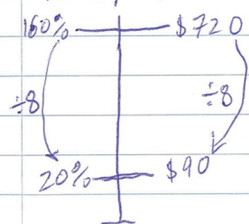
19. \$1480 ✓

20. \$630 ✓

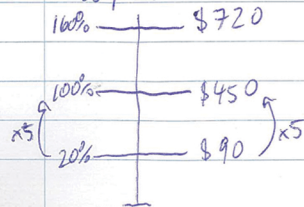
Profit and Loss
06/02/2017

1. a) 160%

Copy & complete.
b) Step 1:



Step 2:



c) $\div 8 \downarrow 160\% = \$720 \downarrow \div 8$
 $\times 5 \downarrow 20\% = \$90 \downarrow \times 5$
 $\times 5 \downarrow 100\% = \$450 \downarrow \times 5$

d) C.

2. a) 36%

b) $\div 9 \downarrow 36\% = \$45 \downarrow \div 9$
 $\times 25 \downarrow 4\% = \$5 \downarrow \times 25$
 $\times 25 \downarrow 100\% = \$125 \downarrow \times 25$

c) B.

3. a) $\div 5 \downarrow 250\% = \$270 \downarrow \div 5$
 $\times 2 \downarrow 50\% = \$54 \downarrow \times 2$
 $\times 2 \downarrow 100\% = \$108 \downarrow \times 2$

b) $\$270 \div 2.5$.

c) \$162. *Price - Original Price*

4. a) $\div 6 \downarrow 260\% = \$75 \downarrow \div 6$
 $\times 10 \downarrow 10\% = \$12.50 \downarrow \times 10$
 $\times 10 \downarrow 100\% = \$125 \downarrow \times 10$

b) $\$75 + 0.6$.

c) \$50. *Price - Discount Price*
 $= \$125 - \75
 $= 50$

5. a) $\div 20 \downarrow 100\% = \$120 \downarrow \div 20$
 $\times 29 \downarrow 5\% = \$6 \downarrow \times 28$
 $\times 29 \downarrow 140\% = \$168 \downarrow \times 28$

140%.

b) 40% *average original*
 $= 100\% - 60\%$

c) D. 40%.

6. a)

STUDENT 2: NAOMI

15. A painting is bought for \$790. Later, it is sold with a profit of 220%

$$\begin{array}{r} 1238.00 \\ 432.25 \\ \hline 802.75 \end{array} \quad \$802.75 \quad \checkmark$$

a) How much is the painting sold for?

$$790 \times 3.2 = 2528 \quad \checkmark$$

$$\begin{array}{r} 790 \\ \times 3.2 \\ \hline 1580 \\ 2370 \\ \hline 2528 \end{array}$$

b) After selling the painting, how much money has been made?

$$\begin{array}{r} 2528 \\ - 790 \\ \hline 1738 \end{array} \quad \$1738 \quad \checkmark$$

16. A laptop is bought for \$1235. Later, it is sold with a loss of 65%.

a) How much is the laptop sold for?

$$\begin{array}{r} 1235 \\ \times 35\% \\ \hline 6175 \\ 37050 \\ \hline 43225 \end{array} \quad \$1235 \times 0.35 = \$432.25 \quad \checkmark$$

b) After selling the laptop, how much money has been lost?

Profit and loss

1. A piece of art is sold with a profit of 60% for \$720

d) Hanna finds out a quick way to work out the original price of the Art.

a) What is the "new percentage"?

160% \checkmark

b) Copy and complete the double number-lines to work out the original price of the art.

160% — \$720	160% — \$720
$\div 8$	$\div 8$
20% — \$90	100% — \$450 \checkmark
	$\times 5$
	20% — \$90 \checkmark

e) If the problem was changed so that the \$720 price was \$1000, what would the answer be?

c) copy and complete the number sentences to work out the original price of the art.