

6.6 Puzzle Time 2/11

* 3 kinds of problems

* Find sale/selling price.
(discount) (mark up)

① \$99, 40% ~~discount~~ ^{subtract}

~~Price~~
% Save

Sale Price
%

3-5 on your own

Full Price - Discount = PAY

a) $100\% - 40\% = 60\%$

Sale Price = % Paid (Original Price)

Part

Whole

$x = 60\%$ of \$99

$x = .6(99)$

Sale price = \$59.40

② \$32, marked up 80%
% increase

a) $100\% + 80\% = 180\%$

b) selling price = 180% of \$32 ← whole

Part

$x = 1.8(32)$

Retail \$ = \$57.60 ← Part

over →

6.6 PT Part 2

* Find Original Price

$$\text{Sale/Selling } \$ = \frac{\%}{\text{PAID}} \left(\begin{array}{l} \text{Original} \\ \text{Price} \\ \text{whole} \end{array} \right)$$

part

8-10

on your own

⑥ discount: 65% ^{sale \$}, \$20.30

① $100\% - 65\% = 35\%$

② sale = $\frac{\%}{\text{Paid}} \left(\begin{array}{l} \text{Original} \\ \text{Price} \end{array} \right)$

$\$20.30 = 35\%$ of original price

③ $20.30 = .35(x)$

$$\frac{20.30}{.35} = \frac{.35x}{.35}$$

Original \$ = \$58

⑦ ADD marked up 50%

selling price: \$36.75

① $100\% + 50\% = 150\%$

② $36.75 = 1.5x$

6.6 PT Part 3

Just like % of Change!

* Find % Discount/markup

(11) original \$: \$52
sale \$: \$31.20

$$\left(\frac{\text{difference}}{\text{original \$}} \right) (100)$$

$$\left(\frac{52 - 31.2}{52} \right) (100)$$

40% Discount

13-15 on your
Own

(12) original \$: \$23
retail \$: \$41.40

$$\frac{41.40 - 23}{23} (100) =$$

