

Numbers in Retail Discounts

Suggested Responses



Worksheet

1. a) $119.50 \div 10 = \$11.95$
 b) $119.50 - 11.95 = \$107.55$
 c) $25.00 \div 10 = \$2.50$
 d) $25.00 - 2.50 = \$22.50$
 e) $69.50 \div 10 = \$6.95$
 f) $69.50 - 6.95 = \$62.55$
 g) $29.00 \div 10 = 2.90$
 h) $29.00 - 2.90 = \$26.10$

2.

Item	Original price (\$)	Discount amount (\$)	Sale price (\$)
Skate shoes	119.50	11.95	107.55
Hats	25.00	2.50	22.50
Hoodies	69.50	6.95	62.55
Shirts	29.00	2.90	26.10

3. a) $107.55 \times 5\% = 5.3775$
 $\rightarrow \$5.38$
 b) $107.55 - 5.38 = \$102.17$

Sale Pricing

1.

Fruit tree/vine	Original price (\$)	Sale price (\$)	Discount (%)
Apple	35	24.50	30.0
Pear	42	31.50	25.0
Plum	27	22.95	15.0
Orange	45	36.00	20.0
Mandarin	48	39.60	17.5
Nectarine	28	21.70	22.5
Peach	30	27.00	10.0
Kumquat	37	31.45	15.0
Lemon	34	28.39	16.5
Passion fruit	32	28.16	12.0

2. a) Apple trees have the largest discount, 30%, applied.

b) Peach trees have the smallest discount, 10%, applied.

3. a) Lemon: $2 \times 34 = 68$

$$68 + 42 + 28 + 27 = \$165.00$$

b) Lemon: $2 \times 28.39 = 56.78$

$$56.78 + 31.50 + 21.70 + 22.95 = \$132.93$$

c) $165 - 132.93 = 32.07$

$$32.07 \div 165 \times 100 = 19.44\%$$

Sale Pricing: Extension

1. a) $75 + (0.5 \times 75) = \$112.50$

b) $59 + (0.5 \times 59) + 35 + (0.5 \times 35) = \141.00

2. a) Let the original price of one pair of shoes be x .

$$x + 0.5x = 126$$

$$1.5x = 126$$

$$x = 126 \div 1.5$$

$$x = \$84.00$$

b) Let the original price of one pair of shoes be x .

$$x + 0.5x + x + 0.5x = 360$$

$$3x = 360$$

$$x = 360 \div 3$$

$$x = \$120.00$$

Transcript – For student and teacher use.