

$$R = W + MU$$

Kuta Software - Infinite Pre-Algebra

Name Key

Markup, Discount, and Tax

Date \_\_\_\_\_ Period \_\_\_\_\_

Find the selling price of each item.

- 1) Cost of a sled: \$99.50

Markup: 95%

$$R = 99.5 + 0.95(99.5)$$

$$R = 99.5 + 94.525$$

$$R = \$194.03$$

- 3) Cost of an oil change: \$18.00

Markup: 70%

$$R = 18 + 0.7(18)$$

$$R = 18 + 12.6$$

$$R = 30.6$$

$$\$30.60$$

- 5) Cost of an MP3 player: \$129.50

Markup: 60%

$$R = 129.5 + 0.6(129.5)$$

$$R = 129.5 + 77.7$$

$$R = 207.2$$

$$\$207.20$$

- 7) Cost of a pen: \$0.95

Markup: 60%

$$R = 0.95 + 0.6(0.95)$$

$$R = 0.95 + 0.57$$

$$R = 1.52$$

$$\$1.52$$

- 9) Original price of concert tickets: \$100.00

Discount: 21%

$$p = 100 - 0.21(100)$$

$$p = 100 - 21$$

$$p = 79$$

$$\$79$$

- 11) Original price of a telescope: \$99.99

Discount: 13%

$$p = 99.99 - 0.13(99.99)$$

$$p = 99.99 - 12.9987$$

$$p = 86.9913$$

$$\$86.99$$

- 2) Cost of a comic book: \$3.95

Markup: 20%

$$R = 3.95 + 0.2(3.95)$$

$$R = 3.95 + 0.79$$

$$R = \$4.74$$

- 4) Cost of a CD: \$14.50

Markup: 30%

$$R = 14.5 + 0.3(14.5)$$

$$R = 14.5 + 4.35$$

$$R = 18.85$$

$$\$18.85$$

- 6) Cost of an oil change: \$21.95

Markup: 65%

$$R = 21.95 + 0.65(21.95)$$

$$R = 21.95 + 14.2675$$

$$R = 36.2175$$

$$\$36.22$$

- 8) Cost of a computer: \$1,850.00

Markup: 75%

$$R = 1850 + 0.75(1850)$$

$$R = 1850 + 1387.5$$

$$R = 3237.5$$

$$\$3237.50$$

- 10) Original price of a book: \$18.50

Discount: 45%

$$p = 18.5 - 0.45(18.5)$$

$$p = 18.5 - 8.325$$

$$p = 10.175$$

$$\$10.18$$

- 12) Original price of a CD: \$22.99

Discount: 5%

$$p = 22.99 - 0.05(22.99)$$

$$p = 22.99 - 1.1495$$

$$p = 21.8405$$

$$\$21.84$$



13) Original price of a sled: \$99.50

Discount: 50%

$$R = 99.5 - 0.5(99.5)$$

$$R = 99.5 - 49.75$$

$$R = 49.75 \quad \text{\$49.75}$$

14) Original price of a camera: \$554.99

Discount: 48%

$$R = 554.99 - 0.48(554.99)$$

$$R = 554.99 - 266.3952$$

$$R = 288.59 \quad \text{\$288.59}$$

15) Original price of a CD: \$17.00

Discount: 50%

$$R = 17 - 0.5(17)$$

$$R = 17 - 8.5$$

$$R = 8.5 \quad \text{\$8.50}$$

16) Original price of a CD: \$22.95

Discount: 10%

$$R = 22.95 - 0.1(22.95)$$

$$R = 22.95 - 2.295$$

$$R = 20.655 \quad \text{\$20.66}$$

17) Original price of a book: \$49.95

Tax: 3%

$$R = 49.95 + 0.03(49.95)$$

$$R = 49.95 + 1.4985$$

$$R = 51.4485 \quad \text{\$51.45}$$

18) Original price of a book: \$90.50

Tax: 4%

$$R = 90.5 + 0.04(90.5)$$

$$R = 90.5 + 3.62$$

$$R = 94.12 \quad \text{\$94.12}$$

19) Original price of an MP3 player: \$99.50

Tax: 4%

$$R = 99.5 + 0.04(99.5)$$

$$R = 99.5 + 3.98$$

$$R = 103.48 \quad \text{\$103.48}$$

20) Original price of a microphone: \$129.99

Tax: 1%

$$R = 129.99 + 0.01(129.99)$$

$$R = 129.99 + 1.2999$$

$$R = 131.2899 \quad \text{\$131.29}$$

21) Original price of a pen: \$1.50

Tax: 4%

$$R = 1.5 + 0.04(1.5)$$

$$R = 1.5 + 0.06$$

$$R = 1.56 \quad \text{\$1.56}$$

22) Original price of shorts: \$19.99

Tax: 2%

$$R = 19.99 + 0.02(19.99)$$

$$R = 19.99 + 0.3998$$

$$R = 20.3898 \quad \text{\$20.39}$$

23) Original price of an SUV: \$42,000.00

Tax: 3%

$$R = 42,000 + 0.03(42,000)$$

$$R = 42,000 + 1260$$

$$R = 43,260$$

$$\text{\$43,260}$$

24) Original price of a goldfish: \$1.50

Tax: 5%

$$R = 1.5 + 0.05(1.5)$$

$$R = 1.5 + 0.075$$

$$R = 1.575 \quad \text{\$1.58}$$