

### Estimating and Finding Decimal Products Worksheet

1) Estimate the product.

a)  $28.8 \times 2$

b)  $7.9 \times 8.2$

c)  $11.4 \times \$9.6$

d)  $4.20 \times 9.78$

e)  $8.3 \times 100.21$

f)  $9.60 \times \$11.25$

g)  $81 \times \$8.8$

h)  $7.2 \times 2.8$

Use estimation to solve the following problems.

2) Jamie went to school for 22 days in a month. He bought lunch for \$2.80 on each day he attended the school. About how much money did he spend on lunch in the month?

3) David sold lemonade at his stand for \$1.75 each last Sunday. He sold 66 lemonades. About how much money did David made by selling lemonade? Write a multiplication expression that gives the closest estimate before estimating the product.

- 4) A store sold 5,112 soccer balls in the season. The store sells a ball for \$9.19 each. About how much money did the store collect from ball sales?
- 5) Estimate the product  $48.12 \times 19.8$ . Is it an overestimate or an underestimate? Explain.
- 6) Rhonda bought 46 sprinklers for her vegetable garden. The cost of a sprinkler was \$4.18. About how much did it cost Rhonda to buy the sprinklers?
- 7) An aircraft flew for 2.2 hours. The speed of the aircraft was 620 miles an hour. About how many miles did the aircraft travel?

### Estimating and Finding Decimal Products Answer Key

1) Estimate the product.

a)  $28.8 \times 2$

$$(28.8)(2) \approx (29)(2) = 58$$

b)  $7.9 \times 8.2$

$$(7.9)(8.2) \approx (8)(8) = 64$$

c)  $11.4 \times 9.6$

$$(11.4)(9.6) \approx (11)(10) = 110$$

d)  $4.20 \times 9.78$

$$(4.2)(9.78) \approx (4)(10) = 40$$

e)  $8.3 \times 100.21$

$$(8.3)(100.21) \approx (8)(100) = 800$$

f)  $9.60 \times 11.25$

$$(9.60)(11.25) \approx (10)(11) = 110$$

g)  $81 \times 8.8$

$$(81)(8.8) \approx (81)(9) = 729$$

h)  $7.2 \times 2.8$

$$(7.2)(2.8) \approx (7)(3) = 21$$

Use estimation to solve the following problems.

2) Jamie went to school for 22 days in a month. He bought lunch for \$2.80 on each day he attended the school. About how much money did he spend on lunch in the month?

$$(22)(2.80) \approx (22)(3) = 66$$

Jamie spent about \$66 on lunch that month.

3) David sold lemonade at his stand for \$1.75 each last Sunday. He sold 66 lemonades. About how much money did David made by selling lemonade? Write a multiplication expression that gives the closest estimate of the product.

$$(1.75)(66) \approx (2)(66) = 132$$

David made about \$132 selling lemonade.

- 4) A store sold 5,112 soccer balls in the season. The store sells a ball for \$9.19 each. About how much money did the store collected from ball sales?

$$(5112)(9.19) \approx (5112)(10) = 51120$$

The store collected about \$51120 from ball sales.

- 5) Estimate the product  $48.12 \times 19.8$ . Is it an overestimate or an underestimate? Explain.

$$(48.12)(19.8) \approx (48)(20) = 960$$

It is an overestimate because I rounded 19.8 up to 20, which is a greater difference than rounding 48.12 down to 48.

- 6) Rhonda bought 46 sprinklers for her vegetable garden. The cost of a sprinkler was \$4.18. About how much did it cost to Rhonda to buy the sprinklers?

$$(46)(4.18) \approx (46)(4) = 184$$

It costed Rhonda about \$184 to buy the sprinklers.

- 7) An aircraft flew for 2.2 hours. The speed of the aircraft was 620 miles an hour. About how many miles did the aircraft travel?

$$(2.2)(620) \approx (2)(620) = 1240$$

The aircraft traveled for about 1240 miles.