

Decimals Through Space

Name: _____

Multiplying and Dividing Decimals

Date: _____



Section 1: Estimate First



Round each number to the nearest whole number.
Then multiply to estimate.

Example

Estimate 3.2×4.1 .

Round: 3.2 is about 3 and 4.1 is about 4.

$3 \times 4 = 12$.

The answer is about 12.

1) 2.8×5.1

2) 6.9×2.2

3) 4.1×3.9

4) 9.8×1.9

5) 5.2×6.1





Section 2: Multiply Decimals

Multiply as whole numbers. Then place the decimal point.

Example

$$3.2 \times 4.1.$$

$$\text{Multiply } 32 \times 41 = 1,312.$$

There are 2 decimal places in all, so $3.2 \times 4.1 = 13.12$.

This is close to the estimate of 12.

1) $2.5 \times 3 = \underline{\quad}$

2) $1.2 \times 3.4 = \underline{\quad}$

3) $2.4 \times 3.1 = \underline{\quad}$

4) $0.6 \times 0.7 = \underline{\quad}$

5) $5.3 \times 4.2 = \underline{\quad}$





Section 3: Divide by a Whole Number

Keep the decimal point in the same place. Add a zero if you need to.

Example

$$12.6 \div 4.$$

Write $12.60 \div 4 = 3.15$.

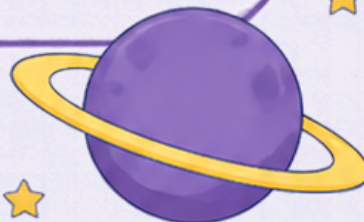
1) $8.4 \div 2 = \underline{\quad}$

2) $9.6 \div 3 = \underline{\quad}$

3) $7.5 \div 5 = \underline{\quad}$

4) $6.3 \div 6 = \underline{\quad}$

5) $15.6 \div 8 = \underline{\quad}$





Section 4: Space Money Problems

Read the story. Multiply or divide to solve.

Example

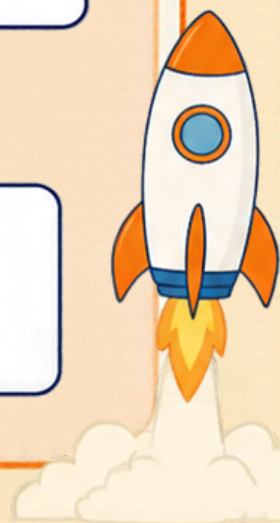
A rocket crew buys 3 fuel bars that cost \$2.75 each.
How much do they pay in all? $3 \times 2.75 = \$8.25$.

- 1) 4 astronauts split a \$18.40 dinner bill equally.
How much does each astronaut pay?

- 2) A moon cookie costs \$1.35. How much do 6 moon cookies cost?

- 3) Three aliens share \$9.45 equally.
How much does each alien get?

- 4) A flying saucer ride costs \$2.40 per person.
How much do 5 people pay?





Decimals Through Space

Answer Key

Teacher Copy

Section 1: Estimate First

1) 15 2) 14 3) 16 4) 20 5) 30

Section 2: Multiply Decimals

1) 7.5 2) 4.08 3) 7.44 4) 0.42 5) 22.26

Section 3: Divide by a Whole Number

1) 4.2 2) 3.2 3) 1.5 4) 1.05 5) 1.95

Section 4: Space Money Problems

1) \$4.60 2) \$8.10 3) \$3.15 4) \$12.00

