Comparing Unit Prices

ANSWER KEY • Amplify Alignment: Grade 6 Accelerated, Unit 2, Lesson 18

1. A car travels 10 miles in 12 minutes. Which of these is not an equivalent rate?

A 5 miles in 6 minutes

B 1 mile in 72 seconds

C $\frac{5}{6}$ mile in 1 minute

D $1\frac{1}{5}$ miles in 1 minute

2. A 3-pound melon costs $6. Which of these have the same price per pound? Select all that apply.

- [x] **A.** A 1-pound melon for $2
- [ ] **B.** A 1-pound melon for $3
- [x] **C.** A $\frac{1}{2}$-pound melon for $1
- [ ] **D.** A 1-pound melon for $0.50
- [x] **E.** 6 pounds of melon for $12

3. Ivy bought a 30-pound bag of cat litter for $16.50. Max bought a 10-pound bag for $6.20.

a Complete the table to find the unit rate for each bag.

	Cat Litter (lb)	Price ($)	Unit Rate ($ per lb)
Ivy	30	16.50	**0.55**
Max	10	6.20	**0.62**

b Which size bag is the better deal? Explain your thinking.

The 30-pound bag. It costs $0.55 per pound, which is less than $0.62 per pound.

4. Which brand of cereal is the best deal? Explain your thinking.

• Brand A: 12 ounces for $3.48 • Brand B: 20 ounces for $5.40 • Brand C: 15 ounces for $4.80

Brand B. A costs $0.29 per ounce, B costs $0.27 per ounce, and C costs $0.32 per ounce.

5. A grocery store sells four kinds of grapes.

a Complete the table to find the unit price of each kind.

Grape Variety	Price ($)	Weight (lb)	Unit Rate ($ per lb)
Red	7.50	3	**2.50**
Green	8.40	4	**2.10**
Cotton candy	9.75	3	**3.25**
Black	11.20	5	**2.24**

b Which kind of grape is the best deal? Explain your thinking.

Green grapes, at $2.10 per pound, have the lowest unit price.

6. Rosa reads 24 pages in 30 minutes. Theo reads 30 pages in 40 minutes. Who reads faster? Explain your thinking.

Rosa. She reads 0.8 page per minute; Theo reads 0.75 page per minute.

7. Ian uses 6 cups of flour to make 4 loaves of bread. Ian says, "At this rate, I can make 7 loaves with 9 cups of flour." Is Ian correct? Explain your thinking.

No. Each loaf uses 6 ÷ 4 = 1.5 cups of flour, so 9 cups makes 9 ÷ 1.5 = 6 loaves, not 7.

8. Plane A flies 1,800 miles in 4 hours. Plane B flies 1,155 miles in $2\frac{1}{2}$ hours. Plane C flies 2,600 miles in $6\frac{1}{2}$ hours. Liam says Plane A is the fastest. Is Liam correct? Explain your thinking.

No. Plane A: 450 mph. Plane B: 1,155 ÷ 2.5 = 462 mph. Plane C: 2,600 ÷ 6.5 = 400 mph. Plane B is the fastest.