Solving Rate Problems

Ratios & Rates

Name: _____ Date: _____ Grade 6

Problems 1–2: Tortoise A walks 2 feet in 8 seconds. Tortoise B walks 3 feet in 10 seconds. Each tortoise keeps walking at its speed.

1. **How far does each tortoise walk in 40 seconds?**

   Tortoise A: _____ Tortoise B: _____

2. **The tortoises start at the same place and walk in the same direction. How far apart will they be after 2 minutes? Show or explain your thinking.**

3. **A horse gallops 150 meters in 10 seconds.**

   a At this rate, how long will it take the horse to gallop 225 meters? _____

   b How far will the horse gallop in 18 seconds? _____

4. **Snail A travels 3 inches in 5 minutes. Snail B travels 5 inches in 8 minutes. Each snail keeps a constant speed.**

   a How far does Snail A travel in 40 minutes? Show your thinking.

   b How far does Snail B travel in 40 minutes? Show your thinking.

   c If the snails start at the same place and travel in the same direction, how far apart will they be after 120 minutes?

5. Nora reads 18 pages in 30 minutes. Eli reads 14 pages in 20 minutes. Both read at a constant rate.

a Pages Nora reads in 1 hour: _____

b Pages Eli reads in 1 hour: _____

c Who reads more quickly? _____

Problems 6–8: Ava types 900 words in 20 minutes. Ben types 500 words in 10 minutes. Cy types 240 words in 6 minutes. Each person types at a constant rate.

6. Complete the tables to show the number of words each person can type.

Ava

Words	Time (min)
	1
	30
	45

Ben

Words	Time (min)
	1
	30
	45

Cy

Words	Time (min)
	1
	30
	45

7. Who types at the fastest rate? Show or explain your thinking.

8. How long would it take Ava to type 2,700 words? Explain your thinking.