

Name _____

Date _____

Section _____

Force & Motion: Investigation Three
Calculating the Average Speed

1. Tamara skates to her grandmother's house; it takes her 0.5 hours to skate 6 km. Calculate her average speed.
2. Alondra rode her bike to school, it took her 0.25 hours to ride 10 km. Calculate her average speed.
3. Demetrius's family drove to the museum; it took 1 hour to drive 55 km. Calculate their average speed.
4. Juan rode his bike to the park; it took 0.2 hours to ride 6 km. Calculate his average speed. Alondra rode her bike to the park; it took 0.5 hours to ride 20 km. Calculate her speed. Who had the quickest speed?
5. Tamara's family drove to the movie theater; it took .75 hours to drive 30 km. Calculate Tamara's family's speed. Demetrius's family drove to the movie theater; it took .2 hours to drive 7 km. Calculate Demetrius's family's speed. Who drove the fastest?
6. Jose skates to the grocery; it takes him .25 hours to skate 4 km. Calculate Jose's speed. Tamara skates to the grocery; it takes her .3 hours to skate 6 km. Calculate Tamara's speed. Who was the fastest?

7. Juan rode his bike to the park; it took 0.2 hours to ride 6 km. On his ride home it took .3 hours. What was his average speed?
8. Tamara's family drove to the movie theater; it took .75 hours to drive 30 km. On their ride home it took .5 hours. What was their average speed?
9. Jose skates to the grocery; it takes him .25 hours to skate 4 km. On the way home it took 1 hour. What was his average speed?
10. Jose skates to the grocery on Monday; it takes .5 hours to skate 6 km. On Tuesday Jose rides his bike to the grocery; it takes .25 hours to ride 6 km. What is the average speed?

Answer Key

1. Tamara skates to her grandmother's house; it takes her 0.5 hours to skate 6 km. Calculate her average speed.

$$6 \text{ km} / .5 \text{ h} = 12 \text{ km/h}$$

2. Alondra rode her bike to school, it took her 0.25 hours to ride 10 km. Calculate her average speed.

$$10 \text{ km} / .25 \text{ h} = 40 \text{ km/h}$$

3. Demetrius's family drove to the museum; it took 1 hour to drive 55 km. Calculate their average speed.

$$55 \text{ km} / 1 \text{ h} = 60 \text{ km/h}$$

4. Juan rode his bike to the park; it took 0.2 hours to ride 6 km. Calculate his average speed. Alondra rode her bike to the park; it took 0.5 hours to ride 20 km. Calculate her speed. Who had the quickest speed?

$$6 \text{ km} / .20 \text{ h} = 30 \text{ km/h}$$

$$20 \text{ km} / .5 \text{ h} = 40 \text{ km/h}$$

Alondra

5. Tamara's family drove to the movie theater; it took .75 hours to drive 30 km. Calculate Tamara's family's speed. Demetrius's family drove to the movie theater; it took .2 hours to drive 7 km. Calculate Demetrius's family's speed. Who drove the fastest?

$$30 \text{ km} / .75 \text{ h} = 40 \text{ km/h}$$

$$7 \text{ km} / .2 \text{ h} = 35 \text{ km/h}$$

Tamara's family

6. Jose skates to the grocery; it takes him .25 hours to skate 4 km. Calculate Jose's speed. Tamara skates to the grocery; it takes her .3 hours to skate 6 km. Calculate Tamara's speed. Who was the fastest?

$$4 \text{ km} / .25 \text{ h} = 16 \text{ km/h}$$

$$6 \text{ km} / .3 \text{ h} = 20 \text{ km/h}$$

Tamara

7. Juan rode his bike to the park; it took 0.2 hours to ride 6 km. On his ride home it took .3 hours. What was his average speed?

$$6 \text{ km} / .20 \text{ h} = 30 \text{ km/h}$$

$$6 \text{ km} / .3 \text{ h} = 20 \text{ km/h}$$

$$12 \text{ km} / .5 \text{ h} = 24 \text{ km/h}$$

8. Tamara's family drove to the movie theater; it took .75 hours to drive 30 km. On their ride home it took .5 hours. What was their average speed?

$$30 \text{ km} / .75 \text{ h} = 40 \text{ km/h}$$

$$30 \text{ km} / .5 \text{ h} = 60 \text{ km/h}$$

$$60 \text{ km} / 1.25 \text{ h} = 48 \text{ km/h}$$

9. Jose skates to the grocery; it takes him .25 hours to skate 4 km. On the way home it took 1 hours. What was his average speed?

$$4 \text{ km} / .25 \text{ h} = 16 \text{ km/h}$$

$$4 \text{ km} / 1 \text{ h} = 4 \text{ km/h}$$

$$8 \text{ km} / 1.25 \text{ h} = 6.4 \text{ km/h}$$

10. Jose skates to the grocery on Monday; it takes .5 hours to skate 6 km. On Tuesday Jose rides his bike to the grocery; it takes .25 hours to ride 6 km. What is the average speed?

$$6 \text{ km} / .5 \text{ h} = 12 \text{ km/h}$$

$$6 \text{ km} / .25 \text{ h} = 24 \text{ km/h}$$

$$12 \text{ km} / .75 \text{ h} = 16 \text{ km/h}$$