

Word problems — Domain and range

Name: _____

Date: _____

Read each problem. Write the answer.

- ① A tank fills at 2 gallons a minute for 15 minutes. w is the water in it after t minutes.

Give the domain and the range as inequalities. As t runs from 0 to 15, w runs from 0 to 30: $0 \leq t \leq 15$, $0 \leq w \leq 30$

- ② A bus drives at 50 miles an hour for 3 hours. d is the distance after t hours.

Give the domain and the range as inequalities.

Domain _____ Range _____

- ③ A jar holds \$10. You add \$2 a week for 4 weeks. m is the money after t weeks.

Give the domain and the range as inequalities.

Domain _____ Range _____

- ④ A candle 39 cm tall burns down 3 cm an hour until it is gone. h is its height after t hours.

Give the domain and the range as inequalities.

Domain _____ Range _____



Word problems · Domain and range — Answer key

1. As t runs from 0 to 15, w runs from 0 to 30: $0 \leq t \leq 15, 0 \leq w \leq 30$
2. As t runs from 0 to 3, d runs from 0 to 150: $0 \leq t \leq 3, 0 \leq d \leq 150$
3. As t runs from 0 to 4, m runs from 10 to 18: $0 \leq t \leq 4, 10 \leq m \leq 18$
4. As t runs from 0 to 13, h runs from 39 to 0: $0 \leq t \leq 13, 0 \leq h \leq 39$