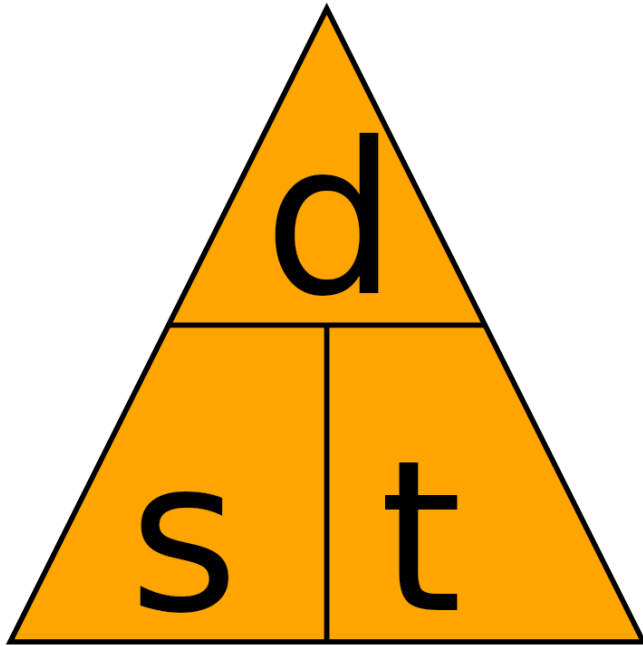


## Speed, Distance, and Time - Practice

1 Which speed/distance/time fact comes from this fact family



A

$$t \cdot d = s$$

B

$$d \cdot s = t$$

C

$$t \cdot s = d$$

2 What fact family triangle would give this speed/distance/time fact?

$$s \cdot t = d$$

A



B



C



3 A bug crawls 250dm in 5hr. How fast is this in dm/hr?

A

50 dm/hr

B

500 dm/hr

C

1,250 dm/hr

D

0.5 dm/hr

4 A spaceship flies 3,000dam in 60ms. How fast is this in dam/ms?

A

0.5 dam/ms

B

500 dam/ms

C

50 dam/ms

D

180,000 dam/ms

5 A rocket flies at 20hm/s for 7s. How many hm does it travel?

A

1.4 hm

B

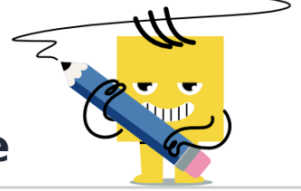
0.35 hm

C

140 hm

D

2,800 hm



## Speed, Distance, and Time - Practice

**6** A car drives at 40dam/min for 50min. How many dam does it travel?

- |                 |                 |
|-----------------|-----------------|
| A<br>1.25 dam   | B<br>20,000 dam |
| C<br>80,000 dam | D<br>2,000 dam  |

**7** A car drives at 20m/s and goes 120m. How many s does it take?

- |              |          |
|--------------|----------|
| A<br>0.3 s   | B<br>6 s |
| C<br>2,400 s | D<br>9 s |

**8** A horse trots at 40m/min and goes 2,400m. How many min does it take?

- |                 |              |
|-----------------|--------------|
| A<br>96,000 min | B<br>6 min   |
| C<br>60 min     | D<br>1.5 min |

**9** Bug A crawls at 10dm/min for 4min. Bug B crawls at 6dm/min for 5min. Which goes further?

- |            |            |
|------------|------------|
| A<br>Bug A | B<br>Bug B |
|------------|------------|

**10** Rocket A flies at 0.67m/ms for 60ms. Rocket B flies at 0.714m/ms for 70ms. Which goes further?

- |               |               |
|---------------|---------------|
| A<br>Rocket B | B<br>Rocket A |
|---------------|---------------|

**11** A car starts at 4:00 and drives until 6:00. It goes 220km. How fast is this in km/hr?

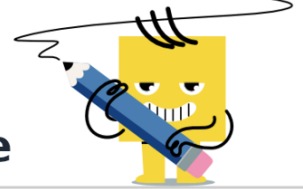
- |                |               |
|----------------|---------------|
| A<br>110 km/hr | B<br>10 km/hr |
| C<br>440 km/hr | D<br>70 km/hr |

**12** A car starts at 4:00 and drives until 9:00. It goes 400km. How fast is this in km/hr?

- |                  |                |
|------------------|----------------|
| A<br>2,000 km/hr | B<br>80 km/hr  |
| C<br>60 km/hr    | D<br>150 km/hr |

**13** A car starts at 2:00 and drives at 100km/hr for 200km. What time does it arrive?

- |           |           |
|-----------|-----------|
| A<br>4:00 | B<br>6:00 |
| C<br>7:00 | D<br>5:00 |



## Speed, Distance, and Time - Practice

- 14** A car starts at 2:00 and drives at 90km/hr for 270km. What time does it arrive?

|           |           |
|-----------|-----------|
| A<br>4:00 | B<br>3:00 |
| C<br>9:00 | D<br>5:00 |

- 15** A car starts at 4:00 and drives at 50km/hr until 7:00. How many km does it travel?

|               |             |
|---------------|-------------|
| A<br>130 km   | B<br>150 km |
| C<br>7,500 km | D<br>15 km  |

- 16** A car starts at 1:00 and drives at 100km/hr until 7:00. How many km does it travel?

|             |                |
|-------------|----------------|
| A<br>600 km | B<br>60,000 km |
| C<br>15 km  | D<br>60 km     |

- 17** Solve the fraction for 'x' in terms of the variables and reduce.

$$a = \frac{x}{g}$$

A

$$x = \frac{a}{g}$$

B

$$x = a \cdot g$$

C

$$x = \frac{g}{a}$$

- 18** Solve the fraction for 'x' in terms of the variables and reduce.

$$a = \frac{4x}{b}$$

|                                |                        |
|--------------------------------|------------------------|
| A<br>$x = \frac{a}{4b}$        | B<br>$x = \frac{b}{a}$ |
| C<br>$x = \frac{a \cdot b}{4}$ |                        |

- 19** Solve the fraction for 'x' in terms of the variables and reduce.

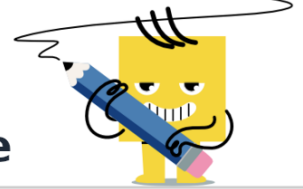
$$a = \frac{b}{3x}$$

|                                |                         |
|--------------------------------|-------------------------|
| A<br>$x = \frac{a}{3b}$        | B<br>$x = \frac{b}{3a}$ |
| C<br>$x = \frac{a \cdot b}{3}$ |                         |

- 20** Solve the fraction for 'x' in terms of the variables and reduce.

$$b = \frac{x}{f}$$

|                        |                        |
|------------------------|------------------------|
| A<br>$x = \frac{b}{f}$ | B<br>$x = \frac{f}{b}$ |
| C<br>$x = b \cdot f$   |                        |

**Speed, Distance, and Time - Practice**

**21** Solve the fraction for 'x' in terms of the variables and reduce.

$$a = \frac{g}{x}$$

A

$$x = \frac{a}{g}$$

B

$$x = \frac{g}{a}$$

C

$$x = a \cdot g$$

**22** Solve the fraction for 'x' in terms of the variables and reduce.

$$2a = \frac{x}{e}$$

A

$$x = \frac{e}{a}$$

B

$$x = \frac{2e}{a}$$

C

$$x = \frac{a}{2e}$$

D

$$x = 2a \cdot e$$

**23** Given that distance is speed multiplied by time, what is speed?

$$d = s \cdot t$$

$$s = ?$$

A  $\frac{t}{d}$

B  $\frac{d}{t}$

C  $d \cdot t$

**24** What is the formula to calculate speed?  
 $s = ?$

A  $\frac{d}{t}$

B  $d \cdot t$

C  $\frac{t}{d}$

**25** What measurement would this calculation result in?

$$\frac{t}{d}$$

A Distance

B Speed

C None of These

D Time

**26** What measurement type would this calculation result in?

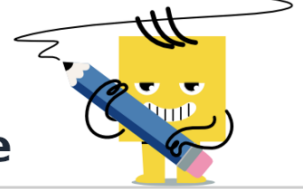
$$\frac{1 \frac{km}{ms}}{1ms}$$

A Distance

B Speed

C None of these

D Time

**Speed, Distance, and Time - Practice**

**27** Would this calculation result in a 'distance' value?

$$1 \frac{km}{hr} \cdot 1hr$$

A

No

B

Yes

**29** A car drives for C mm at M mm/min. How many min does it take?

A

$$\frac{C}{M} \text{ min}$$

B

$$\frac{M}{C} \text{ min}$$

C

$$\frac{1}{MC} \text{ min}$$

**30** A car drives for P hr at R m/hr. How many m does it travel?

A

$$\frac{P}{R} \text{ m}$$

B

$$\frac{R}{P} \text{ m}$$

C

$$\frac{1}{RP} \text{ m}$$

D

$$RP \text{ m}$$

**32** A car drives for 1 hr to reach a town 120 km away and then returns. It's average speed is 60 km/hr. How long does the return journey take?

A 4 hrs

B 3 hrs

C 2 hrs, 45 mins

D 3 hrs, 30 mins

**28** A car drives D cm in C ms. How fast is this in cm/ms?

A

$$\frac{C}{D} \text{ cm/ms}$$

B

$$DC \text{ cm/ms}$$

C

$$\frac{1}{DC} \text{ cm/ms}$$

D

$$\frac{D}{C} \text{ cm/ms}$$

**31** A car drives to a town 90 km away and then returns. It takes 3 hrs to get there and 6 hrs to get back. What's its average speed in km/hr?

A

4 km/hr

B

28 km/hr

C

8 km/hr

D

20 km/hr

**33** A car drives for 1 hr to reach a town and then 1 hr to return. It's average speed is 70 km/hr. How many km away is the town?

A

70 km

B

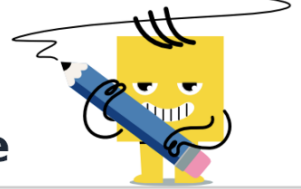
133 km

C

119 km

D

98 km

**Speed, Distance, and Time - Practice****34** Convert this value to meters**10 hm**

|           |               |
|-----------|---------------|
| A 10 m    | B 1 m         |
| C 100 m   | D 10,000 m    |
| E 1,000 m | F 1,000,000 m |

**35** Convert this value to decameters**70 m**

|             |           |
|-------------|-----------|
| A 70 dam    | B 700 dam |
| C 0.07 dam  | D 0.7 dam |
| E 7,000 dam | F 7 dam   |

**36** Convert this value to meters**9 km**

|         |               |
|---------|---------------|
| A 9 m   | B 90,000 m    |
| C 900 m | D 9,000,000 m |
| E 90 m  | F 9,000 m     |

**37** Convert this value to centimeters**0.08 m**

|          |            |
|----------|------------|
| A 800 cm | B 8,000 cm |
| C 8 cm   | D 80 cm    |
| E 0.8 cm | F 0.08 cm  |

**38** Convert this value to decimeters**3 dam**

|            |              |
|------------|--------------|
| A 3,000 dm | B 300,000 dm |
| C 30 dm    | D 300 dm     |
| E 0.3 dm   | F 3 dm       |

**39** Convert this value to centimeters**11 dam**

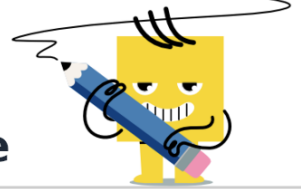
|                 |             |
|-----------------|-------------|
| A 110,000 cm    | B 11,000 cm |
| C 11,000,000 cm | D 1,100 cm  |
| E 1,100,000 cm  | F 11 cm     |

**40** Convert this value to meters**3 dm**

|            |           |
|------------|-----------|
| A 3 m      | B 0.3 m   |
| C 300 m    | D 0.03 m  |
| E 0.0003 m | F 0.003 m |

**41** Convert this value to decameters**15 m**

|             |              |
|-------------|--------------|
| A 1.5 dam   | B 0.0015 dam |
| C 0.015 dam | D 1,500 dam  |
| E 150 dam   | F 0.15 dam   |

**Speed, Distance, and Time - Practice****42** Convert this value to millimeters**5 cm**

|             |            |
|-------------|------------|
| A 500 mm    | B 50 mm    |
| C 0.05 mm   | D 5 mm     |
| E 50,000 mm | F 5,000 mm |

**43** Convert this value to centimeters**0.6 dm**

|            |            |
|------------|------------|
| A 6,000 cm | B 0.006 cm |
| C 600 cm   | D 60 cm    |
| E 6 cm     | F 0.06 cm  |

**44** Convert this value to minutes**1 hr**

|             |              |
|-------------|--------------|
| A 0.6 min   | B 60 min     |
| C 6 min     | D 60,000 min |
| E 6,000 min | F 600 min    |

**45** Convert this value to milliseconds**12 s**

|                 |                |
|-----------------|----------------|
| A 12,000,000 ms | B 120 ms       |
| C 120,000 ms    | D 12,000 ms    |
| E 12 ms         | F 1,200,000 ms |

**46** Convert this value to minutes**21 hr**

|            |               |
|------------|---------------|
| A 126 min  | B 1,260 min   |
| C 12.6 min | D 126,000 min |
| E 1.26 min | F 12,600 min  |

**47** A car starts at 4:00 and drives until 5:00. It goes 80km. How fast is this in km/hr?

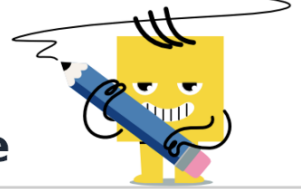
|             |             |
|-------------|-------------|
| A 130 km/hr | B 80 km/hr  |
| C 60 km/hr  | D 120 km/hr |

**48** A car starts at 2:00 and drives until 5:30. It goes 210km. How fast is this in km/hr?

|            |             |
|------------|-------------|
| A 60 km/hr | B 40 km/hr  |
| C 30 km/hr | D 735 km/hr |

**49** A car starts at 2:30 and drives at 40km/hr for 120km. What time does it arrive?

|        |        |
|--------|--------|
| A 6:30 | B 5:30 |
| C 7:30 | D 6:00 |



## Speed, Distance, and Time - Practice

**50** A car starts at 1:00 and drives at 60km/hr for 210km. What time does it arrive?

|           |           |
|-----------|-----------|
| A<br>2:30 | B<br>4:30 |
| C<br>3:30 | D<br>6:30 |

**51** A car starts at 3:00 and drives at 80km/hr until 4:30. How many km does it travel?

|             |               |
|-------------|---------------|
| A<br>120 km | B<br>12 km    |
| C<br>15 km  | D<br>9,600 km |

**52** A car starts at 2:00 and drives at 40km/hr until 6:00. How many km does it travel?

|             |               |
|-------------|---------------|
| A<br>160 km | B<br>6,400 km |
| C<br>70 km  | D<br>15 km    |

**53** A car drives 10dam in 5s. How fast is this in hm/s?

|               |               |
|---------------|---------------|
| A<br>0.8 hm/s | B<br>0.2 hm/s |
| C<br>0.9 hm/s | D<br>5 hm/s   |

**54** A plane flies at 3dm/ms for 8ms. How many mm does it travel?

|                 |               |
|-----------------|---------------|
| A<br>240 mm     | B<br>0 mm     |
| C<br>720,000 mm | D<br>2,400 mm |

**55** A train travels at 5cm/ms and goes 35cm. How many ms does it take?

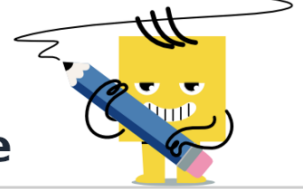
|              |                |
|--------------|----------------|
| A<br>7 ms    | B<br>17,500 ms |
| C<br>0.14 ms | D<br>11 ms     |

**56** A bug crawls 20dm in 5min. How fast is this in dm/hr?

|                  |                |
|------------------|----------------|
| A<br>2,400 dm/hr | B<br>2.4 dm/hr |
| C<br>240 dm/hr   | D<br>1.7 dm/hr |

**57** A bacteria moves at 5mm/min for 7min. How many mm does it travel?

|                |            |
|----------------|------------|
| A<br>10,500 mm | B<br>0 mm  |
| C<br>3.5 mm    | D<br>35 mm |



## Speed, Distance, and Time - Practice

- 58** A bacteria moves at 3m/d and goes 24m. How many hr does it take?

|   |        |   |          |
|---|--------|---|----------|
| A | 3 hr   | B | 1.9 hr   |
| C | 192 hr | D | 1,536 hr |

- 59** A bacteria moves 32dm in 8d. How fast is this in mm/hr?

|   |               |
|---|---------------|
| A | 24 mm/hr      |
| B | 16.67 mm/hr   |
| C | 614,400 mm/hr |
| D | 14 mm/hr      |

- 60** A horse trots at 4hm/hr for 5hr. How many km does it travel?

|   |          |   |           |
|---|----------|---|-----------|
| A | 0.013 km | B | 45,000 km |
| C | 2 km     | D | 8 km      |

- 61** A horse trots at 3hm/min and goes 18hm. How many s does it take?

|   |       |   |      |
|---|-------|---|------|
| A | 720 s | B | 36 s |
| C | 360 s | D | 90 s |

- 62** A car drives to a town 30 km away and then returns. It takes 1 hr, 30 mins to get there and 30 mins to get back. What's its average speed in km/hr?

|   |          |   |          |
|---|----------|---|----------|
| A | 42 km/hr | B | 33 km/hr |
| C | 30 km/hr | D | 27 km/hr |

- 63** A car drives for 1 hr, 30 mins to reach a town 60 km away and then returns. It's average speed is 60 km/hr. How long does the return journey take?

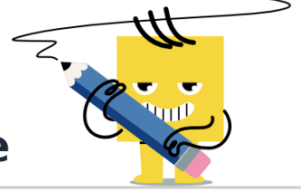
|   |               |
|---|---------------|
| A | 1 hr, 15 mins |
| B | 15 mins       |
| C | 30 mins       |
| D | 1 hr, 30 mins |

- 64** A car drives for 3 hrs to reach a town and then 1 hr to return. It's average speed is 45 km/hr. How many km away is the town?

|   |        |   |        |
|---|--------|---|--------|
| A | 126 km | B | 117 km |
| C | 171 km | D | 90 km  |

- 65** A car drives P cm in Y d. How fast is this in mm/d?

|   |                               |   |                              |
|---|-------------------------------|---|------------------------------|
| A | $\frac{10Y}{P} \text{ mm/d}$  | B | $\frac{Y}{10P} \text{ mm/d}$ |
| C | $\frac{1}{10PY} \text{ mm/d}$ | D | $\frac{10P}{Y} \text{ mm/d}$ |

**Speed, Distance, and Time - Practice**

**66** A car drives for  $Z$  km at  $Y$  m/min. How many min does it take?

A  $\frac{1}{YZ} \text{ min}$

B  $\frac{Z}{1,000Y} \text{ min}$

C  $\frac{Y}{1,000Z} \text{ min}$

D  $\frac{1,000Z}{Y} \text{ min}$

**67** A car drives for  $R$  s at  $M$  cm/s. How many m does it travel?

A  $\frac{R}{100M} \text{ m}$

B  $\frac{M}{100R} \text{ m}$

C  $\frac{MR}{100} \text{ m}$

D  $\frac{100R}{M} \text{ m}$

**68** A car drives for  $R$  hr and goes  $X$  km. How fast is this in km/min?

A  $\frac{R}{60X} \text{ km/min}$

B  $\frac{60R}{X} \text{ km/min}$

C  $\frac{1}{XR} \text{ km/min}$

D  $\frac{X}{60R} \text{ km/min}$

**69** A car drives for  $R$  km at  $D$  km/ms. How many s does it take?

A  $\frac{1,000DR}{1} \text{ s}$

B  $\frac{D}{1,000R} \text{ s}$

C  $\frac{R}{1,000D} \text{ s}$

D  $\frac{1}{1,000DR} \text{ s}$

**70** A car drives at  $M$  mm/min for  $D$  hr. How many mm does it travel?

A  $\frac{1}{60MD} \text{ mm}$

B  $\frac{D}{60M} \text{ mm}$

C  $\frac{60M}{D} \text{ mm}$

D  $60MD \text{ mm}$