

Word problems — Three-step

Name: _____

Date: _____



Read each problem. Write the answer.

- 1 Rafi has 3 stacks of 9 potatoes. A cousin shares 5; in the end, Rafi donates 12 to a school fair.

How many potatoes does Rafi have now? $3 \times 9 = 27$, then $27 + 5 - 12 = 20$ potatoes

- 2 Rafi counts 97 tomatoes. A cousin hands over 10, and a friend shares 43. Then Rafi donates 37 to a school fair.

How many tomatoes does Rafi have now? ____

- 3 Rafi has 6 bundles of 4 strawberries. A friend shares 20; in the end, Rafi passes 17 on to a younger cousin.

How many strawberries does Rafi have now? ____

- 4 Bea has 12 boxes of 2 plums. A friend brings 20, and then Bea passes 6 on to a classmate.

How many plums does Bea have now? ____

- 5 Bea keeps 37 pears. A cousin gives 50, and a friend adds 38. Next, Bea hands 17 to a younger sibling.

How many pears does Bea have now? ____



Word problems — Averages

Name: _____

Date: _____



Read each problem. Write the answer.

- 1 In three quizzes this term, a student scored 42 points, then 35, then 43.

What was the mean per quiz? $42 + 35 + 43 = 120$, then $120 \div 3 = 40$ points

- 2 Over three days at the market, a bakery sold 79, 69 and 77 cakes.

What was the mean number of cakes? ____

- 3 In three days at the market, a bakery sold 69 cakes, then 65, then 76.

What was the mean per day? ____

- 4 Over three weeks in a school drive, a class recycled 63, 51 and 51 bottles.

What was the mean number of bottles? ____

- 5 Over three quizzes this term, a student scored 43, 39 and 53 points.

What was the mean number of points? ____



Word problems — Distance, rate and time

Name: _____

Date: _____



Read each problem. Write the answer.

- 1 A train travels 225 km in 3 hours.

What is its speed in km per hour? $225 \div 3 = 75 \text{ km/h}$

- 2 A bus has 180 km to travel and moves at 45 km/h.

How long does the trip take? ____

- 3 A ferry travels 125 km in 5 hours.

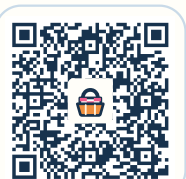
What is its speed in km per hour? ____

- 4 A bus travels for 8 hours at a steady 65 km/h.

What distance does it cover? ____

- 5 A boat travels 320 km at 40 km/h.

How many hours does it take? ____



Word problems — Ratio and proportion



Name: _____

Date: _____

Read each problem. Write the answer.

- 1 A bakery bakes 100 loaves every 4 hours.

At that rate, how long will it take to bake 150 loaves? $100 \div 4 = 25$, then $150 \div 25 =$
6 hours

- 2 A machine makes 420 parts in 6 hours.

At the same rate, how many parts will it make in 3 hours? ____

- 3 A bakery can bake 140 loaves in 4 hours.

At the same rate, how many hours would it take to bake 70 loaves? ____

- 4 A machine makes 360 parts every 6 hours.

At that rate, how many parts does it make in 4 hours? ____

- 5 A factory packs 200 boxes in 5 hours.

At the same rate, how many boxes will it pack in 4 hours? ____



Word problems — Fractions

Name: _____

Date: _____



Read each problem. Write the answer.

- 1 *Sam spent the day out on the survey.*

Sam used $\frac{5}{8}$ liter of water and Priya used $\frac{3}{8}$ liter.

How much more did Sam use than Priya? $\frac{5}{8} - \frac{3}{8} = \frac{1}{4}$ liter

- 2 Sam used $\frac{5}{8}$ liter of water and Priya used $\frac{3}{8}$ liter.

How much did they use altogether? ____

- 3 Sam had $\frac{2}{8}$ cup of juice and used $\frac{1}{8}$ cup.

How much is left? ____

- 4 *Ines spent the morning at the community garden.*

Ines used $\frac{4}{6}$ liter of water and Bea used $\frac{1}{6}$ liter.

How much did they use altogether? ____

- 5 Ines had $\frac{3}{5}$ cup of juice and used $\frac{1}{5}$ cup.

How much is left? ____



Word problems — Decimals

Name: _____

Date: _____



Read each problem. Write the answer.

- 1 *Priya spent the day out on the survey.*

A hand lens costs \$8.59 at one store and \$6.36 at another.

How much cheaper is it at the second store? $\$8.59 - \$6.36 = \$2.23$

- 2 Priya bought a compass for \$13.89 and an insect net for \$3.92.

How much did Priya spend in all? ____

- 3 Priya had \$32.49 and spent \$4.31 on a water bottle.

How much money does Priya have left? ____

- 4 *Bea spent the morning at the community garden.*

Bea was given \$2.71 and now has \$20.81.

How much money did Bea have before? ____

- 5 A watering can costs \$12.83 and a bird feeder costs \$8.20.

How much more is the watering can than the bird feeder? ____



Power Pack · Multi-step story problems — Answer key



Three-step stories

1. $3 \times 9 = 27$, then $27 + 5 - 12 = 20$ potatoes

2. $97 + 10 + 43 = 150$, then $150 - 37 = 113$ tomatoes

3. $6 \times 4 = 24$, then $24 + 20 - 17 = 27$ strawberries

4. $12 \times 2 = 24$, then $24 + 20 - 6 = 38$ plums

5. $37 + 50 + 38 = 125$, then $125 - 17 = 108$ pears

Averages

1. $42 + 35 + 43 = 120$, then $120 \div 3 = 40$ points

2. $79 + 69 + 77 = 225$, then $225 \div 3 = 75$ cakes

3. $69 + 65 + 76 = 210$, then $210 \div 3 = 70$ cakes

4. $63 + 51 + 51 = 165$, then $165 \div 3 = 55$ bottles

5. $43 + 39 + 53 = 135$, then $135 \div 3 = 45$ points

Rates

1. $225 \div 3 = 75$ km/h

2. $180 \div 45 = 4$ hours

3. $125 \div 5 = 25$ km/h

4. $65 \times 8 = 520$ km

5. $320 \div 40 = 8$ hours

Proportions

1. $100 \div 4 = 25$, then $150 \div 25 = 6$ hours

2. $420 \div 6 = 70$, then $70 \times 3 = 210$ parts

3. $140 \div 4 = 35$, then $70 \div 35 = 2$ hours

4. $360 \div 6 = 60$, then $60 \times 4 = 240$ parts

5. $200 \div 5 = 40$, then $40 \times 4 = 160$ boxes

Fraction stories

1. $5/8 - 3/8 = 1/4$ liter

2. $5/8 + 3/8 = 1$ liter

3. $2/8 - 1/8 = 1/8$ cup

4. $4/6 + 1/6 = 5/6$ liter

5. $3/5 - 1/5 = 2/5$ cup

Decimal stories

1. $\$8.59 - \$6.36 = \$2.23$

2. $\$13.89 + \$3.92 = \$17.81$

3. $\$32.49 - \$4.31 = \$28.18$

4. $\$20.81 - \$2.71 = \$18.10$

5. $\$12.83 - \$8.20 = \$4.63$