

Word problems — Mixtures

Name: _____

Date: _____

Read each problem. Write the answer.

- 1 A store blends 3 kg of white chocolate at \$50 a kg with 5 kg of dark chocolate at \$58 a kg.

What is the price per kg of the blend? $3 \times 50 + 5 \times 58 = 440$, then $440 \div 8 = \$55$

- 2 Two strengths are poured together: 5 liters of 50% grape juice and 2 liters of 57% grape juice.

What is the concentration of the mixture? ____

- 3 The blend uses 4 kg of white chocolate at \$48 a kg and 4 kg of dark chocolate at \$56 a kg.

What is the price per kg of the blend? ____

- 4 A store mixes 2 liters of 29% pineapple juice with 5 liters of 50% pineapple juice.

What is the concentration of the blend? ____



Word problems · Mixtures — Answer key

1. $3 \times 50 + 5 \times 58 = 440$,
then $440 \div 8 = \$55$

2. $5 \times 50 + 2 \times 57 = 364$,
then $364 \div 7 = 52\%$

3. $4 \times 48 + 4 \times 56 = 416$,
then $416 \div 8 = \$52$

4. $2 \times 29 + 5 \times 50 = 308$,
then $308 \div 7 = 44\%$