

CHAPTER TEST

1. Convert the following temperatures.

a) $25^{\circ}\text{C} = \underline{\hspace{2cm}}^{\circ}\text{F}$

b) $25^{\circ}\text{F} = \underline{\hspace{2cm}}^{\circ}\text{C}$

c) $-40^{\circ}\text{C} = \underline{\hspace{2cm}}^{\circ}\text{F}$

d) $-25^{\circ}\text{F} = \underline{\hspace{2cm}}^{\circ}\text{C}$

e) $405^{\circ}\text{F} = \underline{\hspace{2cm}}^{\circ}\text{C}$

f) $45^{\circ}\text{C} = \underline{\hspace{2cm}}^{\circ}\text{F}$

2. A welder's electrical arc has a temperature ranging from 500°C to $20\,000^{\circ}\text{C}$. What is this in degrees Fahrenheit?

Answers

77°F

-3.9°C

-40°F

-31.7°C

207.2°C

113°F

932°F

36032°F

3. Convert the following weights.

a) 12 lb 4 oz = _____ oz

b) 2.3 tn = _____ lb

Ans:

a) 196

b) 4600

c) 2 tn 1284 lb

d) 60

e) 10.3

f) 1

c) 5284 lb = _____ tn _____ lb

d) $3\frac{3}{4}$ lb = _____ oz

e) 165 oz = _____ lb

f) 454 g = _____ lb

4. It is estimated that recycling 1 ton of paper saves about 17 trees. About how many trees are saved if 8254 tons of paper are recycled?

Answer:

140,318 trees

5. Eva bought 3 rainbow trout for dinner. They weighed 3 lb 5 oz, 2 lb 12 oz, and 3 lb 8 oz. She cut off the heads and the tails and was left with 8 lb 2 oz. What was the amount of waste?

Answer:

1 lb, 7 oz, Waste

6. The weight of a piece of raw silk that is 100 yards long by 1.25 yards wide (standard width) is about 38 pounds. The weight of an equal amount of habutai silk is about 12 pounds. If Katharine bought pieces of raw silk and habutai silk that were both 12.5 yards long, how much would they weigh together?

Answer:

6.25 lbs

7. A robin's egg weighs about 70 g. How many eggs would it take to make 1 kilogram?

Answer:

15 eggs

8. Huang bought 12 boxes of floor tiles that weigh 288 pounds each. How much is this in kilograms?

Answer: 1570.9 kg

9. Soybeans have a conversion factor of 36.744 (bu/t). How much do 45 bushels weigh?

Answer: 1.2 t

Review Booklet

BUILD YOUR SKILLS

1. Rochelle gave birth to twin boys weighing 6 lb 5 oz and 5 lb 14 oz. What was their total weight?

Ans.
195 oz
= 12 lb 3 oz

2. The weight of water is approximately 2 pounds 3 ounces per litre. How much will 8 litres of water weigh?

280 oz
= 17 lb 8 oz

3. If a basket of raspberries weighs 12 ounces and you need 4 pounds to make jam, how many baskets do you need to buy?

6 baskets

BUILD YOUR SKILLS

4. An elevator has a maximum load restriction of 1.5 tons. Is it safe for two tile layers weighing 195 lb and 210 lb to load it with 65 boxes of tile weighing 42 lb each?

*Answers
Not safe*

5. A small truck weighs approximately 1300 lb. It is loaded with cement slabs that weigh 150 lb each. If the maximum loaded weight of the truck is 2.75 tons, how many slabs can be loaded?

28 Slabs

6. Kurt is planting wheat at the rate of 90 pounds per acre. If he plans to plant 320 acres of wheat, how many tons of wheat will he use?

14.4

BUILD YOUR SKILLS

Answers
5,75 t

1. What is the total weight of a loaded truck if the truck weighs 2.6 tonnes and it is loaded with 15 skids of boxes that weigh 210 kilograms each? Give your answer in tonnes.

414 g

2. Irène needs 1.6 kg of tomatoes to make her grandmother's recipe for ratatouille. She has baskets of tomatoes that weigh 256 g, 452 g, 158 g, and 320 g. How many more grams of tomatoes does she need?

\$6.27

3. Genoa salami sells for \$1.79/100 g at the deli.

a) How much will 350 g cost?

\$17.90

b) What is the price per kilogram?

BUILD YOUR SKILLS

ANSWERS

6.34 oz

4. A recipe calls for 180 g of flour. How much is this in ounces?

3521.6 g

5. A baby weighed 7 pounds 12 ounces at birth. How much did it weigh in grams?

149.6

6. Chen weighs 68 kg. How much does he weigh in pounds?

7. The dosage of a certain medicine is 0.05 mg/kg of weight. Tom weighs 185 lbs.

a) How many milligrams of the medicine should he take?

4.2 mg

b) If the medicine costs \$1.95/mg, what will his dosage cost?

\$8.19