

A Million Dollars

This problem gives you the chance to:

- perform calculations with real data and use proportion

In all these tasks you should show your calculations and give your answers to the nearest whole number.

1. How many \$3.50 burgers can you buy for a million dollars?

$$10,000,000 \div 3.5 =$$

285714 Burgers ✓



2. How many years does it take to earn a million dollars if you are paid \$30 an hour and work 35 hours a week for 50 weeks a year?

$$30 \times 35 \times 50 = 52500$$

$$1,000,000 \div 52500 =$$

19 years ✓

3. A dollar bill weighs one gram. How many pounds do one million dollar bills weigh? (1000 grams is equal to 1 kilogram and 1 kilogram is equal to about 2.205 pounds.)

$$1 \times 1,000,000 = 1,000,000$$

$$1,000,000 \div 1,000 = 1,000$$

$$1,000 \times 2.205 =$$

2205 pounds ✓

4. A dollar bill is 0.0043 inches thick. How many yards high is a pile of a million \$1 bills?

$$0.0043 \times 1,000,000 = 4300$$

$$4300 \div 36 = 119.44$$

119 yards ✓

A Million Dollars

This problem gives you the chance to:

- perform calculations with real data and use proportion

In all these tasks you should show your calculations and give your answers to the nearest whole number.

1. How many \$3.50 burgers can you buy for a million dollars?

$$285,714.28$$

$$3.5 \overline{) 1,000,000} \quad \checkmark$$



0
1

2. How many years does it take to earn a million dollars if you are paid \$30 an hour and work 35 hours a week for 50 weeks a year?

$$30 \cdot 35 = 1050 \text{ a week}$$

$$1050 \cdot 50 = 52500 \text{ a year}$$

$$52,500 \overline{) 1,000,000} \quad \checkmark$$

$$\underline{19,04 \text{ years}}$$

1
1
1

3. A dollar bill weighs one gram. How many pounds do one million dollar bills weigh? (1000 grams is equal to 1 kilogram and 1 kilogram is equal to about 2.205 pounds.)

$$1000 \overline{) 1,000,000}$$

$$1000 \cdot 2.205$$

$$\underline{2205 \text{ lb}}$$

1
1

4. A dollar bill is 0.0043 inches thick. How many yards high is a pile of a million \$1 bills?

$$0.0043 \cdot 1,000,000$$

$$12 \overline{) 4300} \text{ inch}$$

$$\underline{119.44 \text{ yds}}$$

1
1



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1. How many \$3.50 burgers can you buy for a million dollars?

285714 burgers

$$\begin{array}{r} 3.5 \overline{) 1000000} \\ \underline{285714} \end{array}$$



2. How many years does it take to earn a million dollars if you are paid \$30 an hour and work 35 hours a week for 50 weeks a year?

19 years

$$\begin{array}{r} 35 \\ \times 50 \\ \hline 1750 \\ 30 \\ \hline 52500 \end{array}$$

$$525 \overline{) 1000000}$$

3. A dollar bill weighs one gram. How many pounds do one million dollar bills weigh? (1000 grams is equal to 1 kilogram and 1 kilogram is equal to about 2.205 pounds.)

454 pounds × 0

$$2205 \overline{) 1000}$$

453.5

4. A dollar bill is 0.0043 inches thick. How many yards high is a pile of a million \$1 bills?

119 yards ✓

$$\begin{array}{r} 1000000 \\ \times 0.0043 \\ \hline \end{array}$$



⑦

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1. How many \$3.50 burgers can you buy for a million dollars?

$$\begin{array}{r} \$3.50 \\ \hline 1 \text{ million} \end{array} \times \frac{1}{x}$$

$$\frac{285714}{\quad}$$



2. How many years does it take to earn a million dollars if you are paid \$30 an hour and work 35 hours a week for 50 weeks a year?

$$\frac{1050}{x} \times \frac{1}{50}$$

$$\frac{52500}{\quad}$$

3. A dollar bill weighs one gram. How many pounds do one million dollar bills weigh? (1000 grams is equal to 1 kilogram and 1 kilogram is equal to about 2.205 pounds.)

$$\frac{1}{1000} \times \frac{2.205}{x} \times \frac{1}{\text{million}}$$

$$\frac{2205}{\quad}$$

4. A dollar bill is 0.0043 inches thick. How many yards high is a pile of a million \$1 bills?

$$\frac{1}{x} \times \frac{36}{4300}$$

$$\frac{119}{\quad}$$



A Million Dollars

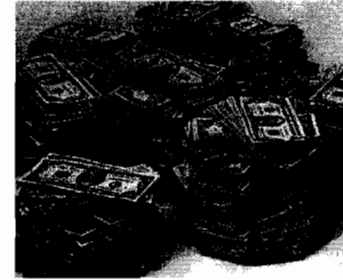
This problem gives you the chance to:

- perform calculations with real data and use proportion

In all these tasks you should show your calculations and give your answers to the nearest whole number.

1. How many \$3.50 burgers can you buy for a million dollars?

$$3.50 \overline{) 1,000,000} \quad \underline{285714} \quad \checkmark$$



2. How many years does it take to earn a million dollars if you are paid \$30 an hour and work 35 hours a week for 50 weeks a year?

$$\begin{array}{r} 30 \\ \times 35 \\ \hline 150 \\ 900 \\ \hline 1050 \end{array} \quad \begin{array}{r} 1050 \\ \times 50 \\ \hline 0000 \\ 5250 \\ \hline 5250 \end{array} \quad \begin{array}{r} 12 \\ 5250 \\ \quad 4 \\ \hline 30000 \end{array} \quad \times$$

$$\underline{190} \times 0$$

3. A dollar bill weighs one gram. How many pounds do one million dollar bills weigh? (1000 grams is equal to 1 kilogram and 1 kilogram is equal to about 2.205 pounds.)

$$\underline{2205} \quad \checkmark \quad |$$

$$2.205 \times 1000 \quad \checkmark \quad |$$

4. A dollar bill is 0.0043 inches thick. How many yards high is a pile of a million \$1 bills?

$$\underline{\hspace{2cm}} \quad \times 0$$

$$\times 0$$



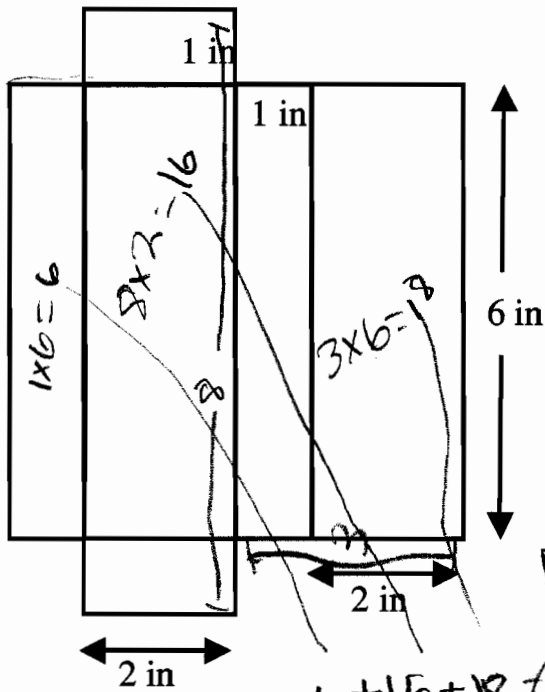
Boxes

This problem gives you the chance to:

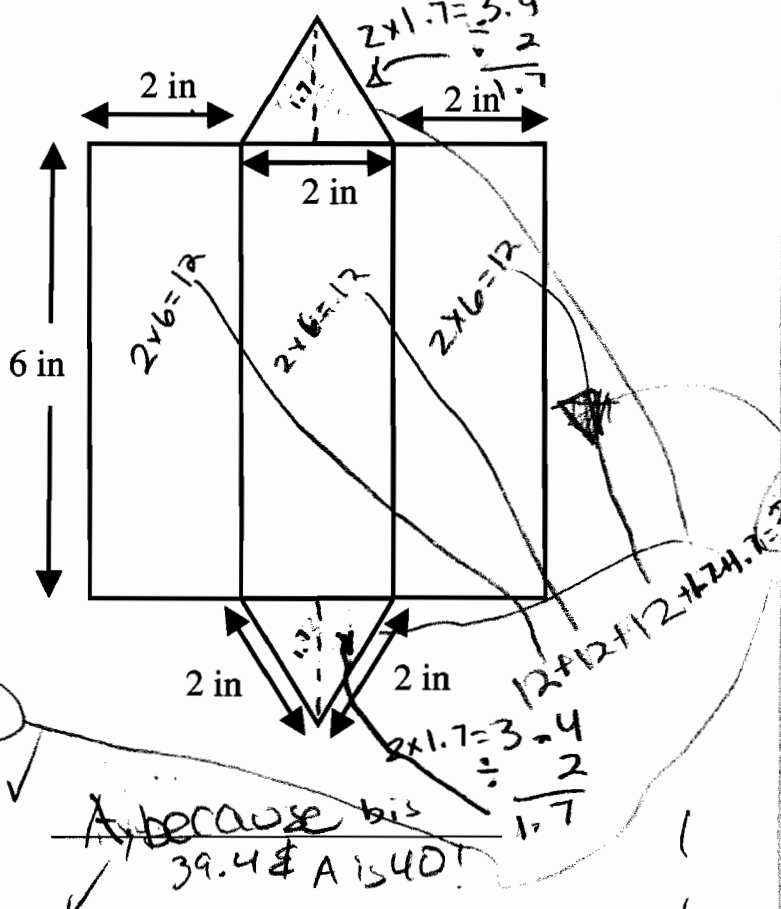
- interpret 2D representations of 3D shapes
- calculate volumes including triangular sections

Each of the two shapes shown below could be cut out and folded up to make a solid box.

Shape A



Shape B (The height of the triangle is 1.7 cm)



1. Which of the boxes has the bigger surface area?
Show how you figured it out.

A, because his 39.4 & A is 40!

1
1
2

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- perform calculations with real data and use proportion

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1. How many \$3.50 burgers can you buy for a million dollars?

$$1,000,000 \div 3.50 = 285,714$$



2. How many years does it take to earn a million dollars if you are paid \$30 an hour and work 35 hours a week for 50 weeks a year?

about 19 years

$$35 \times 30 = 1050 \quad 1050 \times 50 = 52,500$$

$$1,000,000 \div 52,500 = 19.04$$

3. A dollar bill weighs one gram. How many pounds do one million dollar bills weigh? (1000 grams is equal to 1 kilogram and 1 kilogram is equal to about 2.205 pounds.)

220.5 pounds

$$1 \times 1,000,000 = 1,000,000 \div 1000 = 1,000$$

$$1,000 \times 2.205 = 220.5$$

4. A dollar bill is 0.0043 inches thick. How many yards high is a pile of a million \$1 bills?

$$4300 \div 36 = 119.44$$

$$.0043 \times 1,000,000 = 4300$$

119 yards tall



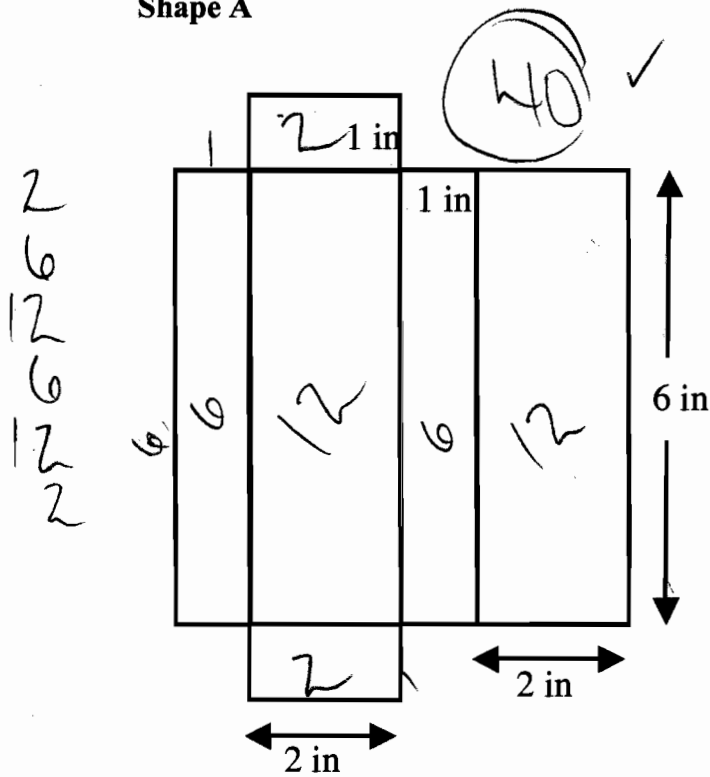
Boxes

This problem gives you the chance to:

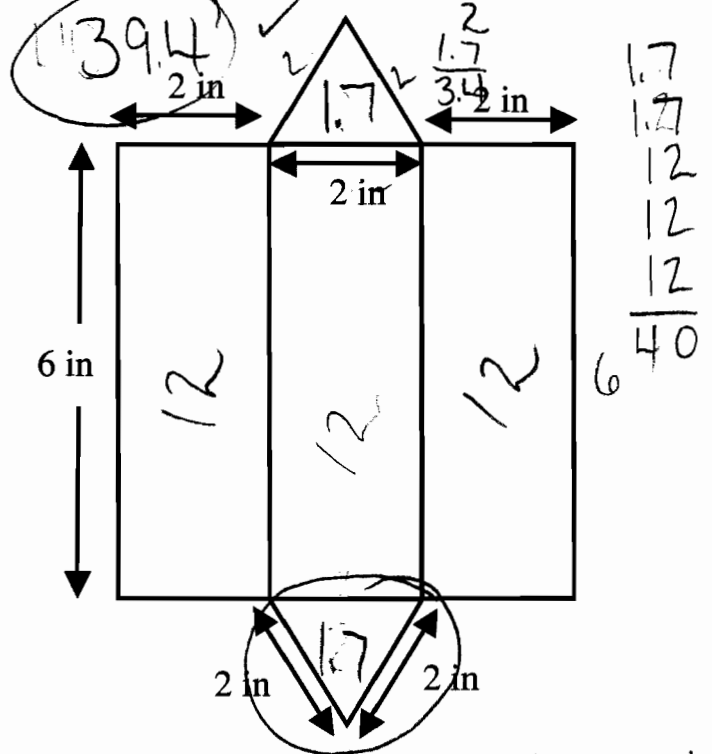
- interpret 2D representations of 3D shapes
- calculate volumes including triangular sections

Each of the two shapes shown below could be cut out and folded up to make a solid box.

Shape A



Shape B (The height of the triangle is 1.7 cm)



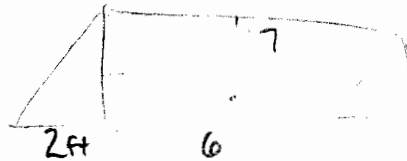
1. Which of the boxes has the bigger surface area?
Show how you figured it out.

Shape A ✓

1
1
2

$l = 6$ $lwh = V$

$w = 2$ $12 = V$
 $h = 1$



$2 \cdot 1.7 \cdot 6$



A Million Dollars

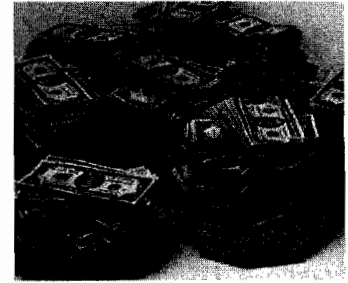
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- perform calculations with real data and use proportion

In all these tasks you should show your calculations and give your answers to the nearest whole number.

1. How many \$3.50 burgers can you buy for a million dollars?

$$\frac{1,000,000}{3.50} = 285714$$



2. How many years does it take to earn a million dollars if you are paid \$30 an hour and work 35 hours a week for 50 weeks a year?

$$30 \times 35 \times 50 = 52500$$

$$\frac{1,000,000}{52500} = 19 \text{ years}$$

3. A dollar bill weighs one gram. How many pounds do one million dollar bills weigh? (1000 grams is equal to 1 kilogram and 1 kilogram is equal to about 2.205 pounds.)

$$1,000,000 \text{ grams} \times \frac{1 \text{ kg}}{1000 \text{ g}} \times \frac{2.205 \text{ lbs}}{1 \text{ kg}} = 2205 \text{ lbs}$$

4. A dollar bill is 0.0043 inches thick. How many yards high is a pile of a million \$1 bills?

$$0.0043 \text{ inches} \times 1,000,000 = 4300 \text{ inches}$$

$$\frac{4300 \text{ inches}}{36 \text{ inches/yard}} = 119 \text{ yards}$$

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1. How many \$3.50 burgers can you buy for a million dollars?

$$1,000,000 \div 3.50 = 285714.28$$

$$\frac{285714}{}$$



2. How many years does it take to earn a million dollars if you are paid \$30 an hour and work 35 hours a week for 50 weeks a year?

$$\begin{aligned} 30 \cdot 35 &= 1050 \\ 1050 \cdot 50 &= 52500 \\ 1,000,000 \div 52500 &= 19.04 \end{aligned}$$

$$\frac{19 \text{ years}}{}$$

3. A dollar bill weighs one gram. How many pounds do one million dollar bills weigh? (1000 grams is equal to 1 kilogram and 1 kilogram is equal to about 2.205 pounds.)

$$\begin{aligned} 1,000,000 \div 1000 &= 1000 \\ 2.205 \cdot 1000 &= 2205 \end{aligned}$$

$$\frac{2205}{}$$

4. A dollar bill is 0.0043 inches thick. How many yards high is a pile of a million \$1 bills?

$$\begin{aligned} 1,000,000 \cdot 0.0043 &= 4300 \\ 4300 \div 3 &= 1433.33 \end{aligned}$$

$$\frac{1433}{}$$



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This problem gives you the chance to:

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1. How many \$3.50 burgers can you buy for a million dollars?

$$1000000 \div 3.5$$

$$\underline{285,714}$$



2. How many years does it take to earn a million dollars if you are paid \$30 an hour and work 35 hours a week for 50 weeks a year?

$$30 \cdot 35 \cdot 50 = 52500$$

$$\underline{\text{about } 19 \text{ years}}$$

$$1000000 \div 52500$$

3. A dollar bill weighs one gram. How many pounds do one million dollar bills weigh? (1000 grams is equal to 1 kilogram and 1 kilogram is equal to about 2.205 pounds.)

$$\underline{\text{about } 2205 \text{ pounds}}$$

1

4. A dollar bill is 0.0043 inches thick. How many yards high is a pile of a million \$1 bills?

$$\underline{\text{about } 1433 \text{ yards high}}$$



A Million Dollars

S9

This problem gives you the chance to:

- perform calculations with real data and use proportion

In all these tasks you should show your calculations and give your answers to the nearest whole number.

1. How many \$3.50 burgers can you buy for a million dollars?

$$1,000,000 \div 3.50$$

285,714 burgers ✓



2. How many years does it take to earn a million dollars if you are paid \$30 an hour and work 35 hours a week for 50 weeks a year?

52500 a year ✓

$$1,000,000 \div 52500$$

19 years ✓

3. A dollar bill weighs one gram. How many pounds do one million dollar bills weigh? (1000 grams is equal to 1 kilogram and 1 kilogram is equal to about 2.205 pounds.)

$$1,000,000 \div 1,000$$

$$1,000 \times 2.205$$

2205 ✓

2205 pounds ✓

4. A dollar bill is 0.0043 inches thick. How many yards high is a pile of a million \$1 bills?

$$0.0043 \times 1,000,000$$

$$4300 \text{ in} \div 12$$

$$358.3 \text{ ft} \div 3$$

119.4 yd ✓

119.4 yd ✓

9

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1. How many \$3.50 burgers can you buy for a million dollars?

$$1,000,000 \div 3.50 = 285714$$

$$\underline{285,714}$$



2. How many years does it take to earn a million dollars if you are paid \$30 an hour and work 35 hours a week for 50 weeks a year?

$$50 \cdot 35 = 1750 \cdot 30 = 52500$$

$$1,000,000 \div 52500 = 19$$

$$\underline{19 \text{ years}}$$

3. A dollar bill weighs one gram. How many pounds do one million dollar bills weigh? (1000 grams is equal to 1 kilogram and 1 kilogram is equal to about 2.205 pounds.)

$$1,000,000 \div 1,000 = 1,000 \text{ kilograms}$$

$$2.205 \cdot 1000 = 2205$$

$$\underline{2205 \text{ pounds}}$$

4. A dollar bill is 0.0043 inches thick. How many yards high is a pile of a million \$1 bills?

$$1,000,000 \cdot 0.0043 = \frac{4300 \text{ inches}}{36}$$

$$3\text{ft} \cdot 12 = 36$$

$$= 119$$

$$\underline{\text{about } 119 \text{ yds}}$$