

Pepe's Party

T1

This problem gives you the chance to:

- use numbers and prices in a real situation

Pepe is having a party.

There will be 20 people at the party.

Here is the price list for things Pepe needs.

Party supplies!	
Plastic knife, fork, and spoon set	30¢
Package of 10 paper plates	\$2.75
Package of 5 paper cups	\$1.50

1. Complete the table to show the prices for 20 plastic knives, 20 forks, and 20 spoons, 20 paper plates and 20 paper cups.

	Number of packages	Price
Plastic knife, fork, and spoon set	20	\$6
Paper plates	2	\$5.50
Paper cups	4	\$6

Show your calculations.

$$\begin{array}{r} 30¢ \\ 20 \times \\ \hline \$6.00 \end{array}$$

$$\begin{array}{r} \$2.75 \\ 2 \times \\ \hline \$5.50 \end{array}$$

$$\begin{array}{r} \$1.50 \\ 4 \times \\ \hline 6.00 \end{array}$$

2. Pepe also wants to buy 20 party hats.

A package of 8 hats costs \$1.50. The shop will not split a package.

The price of 1 hat is 30¢.

What is the cheapest price for 20 hats? \$ 4.20

Explain how you figured it out.

$$\begin{array}{l} \text{Way 1} = 20 \times 30\text{¢} = \$6 \\ \text{twenty unpackaged hats} \end{array}$$

$$\begin{array}{l} \text{Way 2} = 3 \times \$1.50 = \$4.50 \\ \text{three packages of hats} \end{array}$$

$$\begin{array}{l} \text{Way 3} - 2 \times \$1.50 = \$3 \quad \text{so } \$3 + \$1.20 = \\ \quad 4 \times 30\text{¢} = \$1.20 \quad \quad \quad \$4.20 \\ \quad \quad \quad 2 \times 8 = 16 \\ \quad \quad \quad 2 \text{ packages} + 4 \text{ single hats} = 20 \text{ hats} \end{array}$$

So way three is the best

Pepe's Party

T2

This problem gives you the chance to:
 • use numbers and prices in a real situation

Pepe is having a party.
 There will be 20 people at the party.
 Here is the price list for things Pepe needs.

Party supplies!	
Plastic knife, fork, and spoon set	30¢
Package of 10 paper plates	\$2.75
Package of 5 paper cups	\$1.50

$$\begin{array}{r} 30 \\ \times 20 \\ \hline 600 \\ \hline 600 \end{array}$$

$$\begin{array}{r} 1.50 \\ \times 3 \\ \hline 4.50 \end{array}$$

$$\begin{array}{r} 2.75 \\ \times 2 \\ \hline 5.50 \\ \hline 5.50 \\ \hline 550.00 \end{array}$$

- Complete the table to show the prices for 20 plastic knives, 20 forks, and 20 spoons, 20 paper plates and 20 paper cups.

	Number of packages	Price
Plastic knife, fork, and spoon set	20	\$ 6.00
Paper plates	2	\$ 5.50
Paper cups	4	\$ 6.00

Show your calculations.

$$\begin{array}{r} 30 \\ \times 20 \\ \hline 600 \end{array}$$

$$\begin{array}{r} 2.75 \\ \times 2 \\ \hline 5.50 \end{array}$$

$$\begin{array}{r} 1.50 \\ \times 4 \\ \hline 6.00 \end{array}$$

$$\begin{array}{r} 1.50 \\ \times 4 \\ \hline 6.00 \end{array}$$

$$\begin{array}{r} 2.75 \\ \times 2 \\ \hline 5.50 \end{array}$$

2. Pepe also wants to buy 20 party hats.

A package of 8 hats costs \$1.50. The shop will not split a package.

The price of 1 hat is 30¢.

What is the cheapest price for 20 hats? \$ 4.50

T2

Explain how you figured it out.

Since 1 hat is 30¢, I multiplied 30×20 & the
answer was \$6.00. The package of 8 is \$1.50.
I decided to buy 3. $\$1.50 \times 3$ is \$4.50.
That was the cheapest.

Pepe's Party

T3

This problem gives you the chance to:
• use numbers and prices in a real situation

Pepe is having a party.
There will be 20 people at the party.
Here is the price list for things Pepe needs.

Party supplies!	
Plastic knife, fork, and spoon set	30¢
Package of 10 paper plates	\$2.75
Package of 5 paper cups	\$1.50

1. Complete the table to show the prices for 20 plastic knives, 20 forks, and 20 spoons, 20 paper plates and 20 paper cups.

	Number of packages	Price
Plastic knife, fork, and spoon set	20	\$.60
Paper plates	2	\$ 5.50
Paper cups	4	\$ 6.00

Show your calculations.

2. Pepe also wants to buy 20 party hats.

A package of 8 hats costs \$1.50. The shop will not split a package.

The price of 1 hat is 30¢.

What is the cheapest price for 20 hats?

\$ 4.50

Explain how you figured it out.

$$8 \times 3 = 24 \text{ hats} = \$4.50$$

$$20 \times .30 = \$6.00$$

Pepe's Party

T4

This problem gives you the chance to:

- use numbers and prices in a real situation

Pepe is having a party.

There will be 20 people at the party.

Here is the price list for things Pepe needs.

Party supplies!		
Plastic knife, fork, and spoon set	30¢	\$6
Package of 10 paper plates	\$2.75	\$5.50
Package of 5 paper cups	\$1.50	\$6

1. Complete the table to show the prices for 20 plastic knives, 20 forks, and 20 spoons, 20 paper plates and 20 paper cups.

	Number of packages	Price
Plastic knife, fork, and spoon set	20	\$ 6.00
Paper plates	2	\$5.50
Paper cups	4	\$6.00

Show your calculations.

$$\begin{array}{l} .30 \times 20 = 6 \\ 2.75 \times 2 = 5.5 \\ 1.5 \times 4 = 6 \end{array}$$

2. Pepe also wants to buy 20 party hats.

A package of 8 hats costs \$1.50. The shop will not split a package.

The price of 1 hat is 30¢.

What is the cheapest price for 20 hats? \$ 4.50

Explain how you figured it out.

I added both on a calculator
and option 1 was cheaper with $3 \times 1.5 =$
4.5.

Pepe's Party

T5

This problem gives you the chance to:

- use numbers and prices in a real situation

Pepe is having a party.

There will be 20 people at the party.

Here is the price list for things Pepe needs.

Party supplies!	
Plastic knife, fork, and spoon set	30¢
Package of 10 paper plates	\$2.75
Package of 5 paper cups	\$1.50

1. Complete the table to show the prices for 20 plastic knives, 20 forks, and 20 spoons, 20 paper plates and 20 paper cups.

	Number of packages	Price
Plastic knife, fork, and spoon set	20	\$ 6
Paper plates	2	\$ 5.50
Paper cups	4	\$ 6

Show your calculations.

$$\begin{aligned} 2 \times \$2.75 &= \$5.50 \\ 4 \times \$1.50 &= \$6 \end{aligned}$$

2. Pepe also wants to buy 20 party hats.

A package of 8 hats costs \$1.50. The shop will not split a package.

The price of 1 hat is 30¢.

What is the cheapest price for 20 hats?

\$ 4.20

Explain how you figured it out.

$$3 \times \$1.50 = \$4.50$$

OR

$$20 \times 30¢ = \$6$$

OR

$$(2 \times \$1.50) + (4 \times 30¢)$$

$$\$3 + \$1.20 = \$4.20$$

Pepe's Party

S1

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Pepe is having a party.
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Here is the price list for things Pepe needs.

Party supplies!	
Plastic knife, fork, and spoon set	30¢
Package of 10 paper plates	\$2.75
Package of 5 paper cups	\$1.50

1. Complete the table to show the prices for 20 plastic knives, 20 forks, and 20 spoons, 20 paper plates and 20 paper cups.

	Number of packages	Price
Plastic knife, fork, and spoon set	20	\$6.00
Paper plates	2	\$5.50
Paper cups	4	\$6.00

Show your calculations.

$$20 \text{ sets} \times 30¢ = \$6.00$$

$$2 \text{ pks of paper plates} \\ 2 \times \$2.75 = \$5.50$$

$$4 \text{ pks of cups} \\ \$1.50 \times 4 \\ \begin{array}{r} \$1.50 \\ \times 4 \\ \hline 6.00 \end{array}$$

2. Pepe also wants to buy 20 party hats.

A package of 8 hats costs \$1.50. The shop will not split a package.

The price of 1 hat is 30¢.

What is the cheapest price for 20 hats? \$ 4.20

Explain how you figured it out.

He'll need 3 pks of 8 hats ($3 \times 8 = 24$) as 2 pks aren't enough ($2 \times 8 = 16$). So $3 \times \$1.50 = \underline{\$4.50}$

If he buys 20 single hats at 30¢ it's \$6

The best way would be to buy 2 pks and 4 single hats = $2 \times \$1.50 = \$3.00 +$
 $4 \times 30¢ = 4 \times 30¢ = \underline{\$1.20}$
\$4.20

Pepe's Party

S2

This problem gives you the chance to:

- use numbers and prices in a real situation

Pepe is having a party.

There will be 20 people at the party.

Here is the price list for things Pepe needs.

Party supplies!	
Plastic knife, fork, and spoon set	30¢
Package of 10 paper plates	\$2.75
Package of 5 paper cups	\$1.50

1. Complete the table to show the prices for 20 plastic knives, 20 forks, and 20 spoons, 20 paper plates and 20 paper cups.

	Number of packages	Price
Plastic knife, fork, and spoon set	20	\$6.00
Paper plates	2	\$5.50
Paper cups	4	\$6.00

Show your calculations.

$$\begin{array}{r} 2.75 \\ \times 2 \\ \hline 5.5 \end{array}$$

$$\begin{array}{r} 1.50 \\ \times 4.0 \\ \hline 6 \end{array}$$

$$\begin{array}{r} 20 \\ \times 30 \\ \hline 00 \\ +600 \\ \hline 600 \end{array}$$

2. Pepe also wants to buy 20 party hats.

A package of 8 hats costs \$1.50. The shop will not split a package.

The price of 1 hat is 30¢.

What is the cheapest price for 20 hats?

\$ 4.20

Explain how you figured it out.

I added $1.50 + 1.50 = 3 + 30 + 30 + 30 + 30 = 4.20$

Then I checked $30 \times 8 = 2.40 > 1.50$

Pepe's Party

S3

This problem gives you the chance to:
 • use numbers and prices in a real situation

Pepe is having a party.
 There will be 20 people at the party.
 Here is the price list for things Pepe needs.

Party supplies!	
Plastic knife, fork, and spoon set	30¢
Package of 10 paper plates	\$2.75
Package of 5 paper cups	\$1.50

- Complete the table to show the prices for 20 plastic knives, 20 forks, and 20 spoons, 20 paper plates and 20 paper cups.

	Number of packages	Price
Plastic knife, fork, and spoon set	5	\$ 2.80
Paper plates	2	\$ 5.50
Paper cups	4	\$ 6.00

Handwritten calculations for Paper plates:

$$\begin{array}{r}
 10 \times 2 = 20 \\
 2.75 \\
 + 2.75 \\
 \hline
 5.50
 \end{array}$$

Handwritten calculations for Paper cups:

$$\begin{array}{r}
 5 \times 4 = 20 \\
 1.50 \\
 1.50 \\
 \hline
 3.00 \\
 3.00 \\
 \hline
 6.00
 \end{array}$$

Handwritten calculations for Plastic knife, fork, and spoon set:

$$\begin{array}{r}
 30 \times 3 = 90 \\
 90 \times 20 = 1.80 \\
 \hline
 1.80 \\
 + 1.00 \\
 \hline
 2.80
 \end{array}$$

2. Pepe also wants to buy 20 party hats.

A package of 8 hats costs \$1.50. The shop will not split a package.

The price of 1 hat is 30¢.

What is the cheapest price for 20 hats?

\$ 4.20

Explain how you figured it out.

$$1.50 \times 5 = 7.50 \times 3 = 22.50$$

$$8 \times 3 = 24 \quad \begin{array}{r} 1.50 \\ +1.50 \\ \hline 3.00 \end{array}$$

$$8 \times 2 = 16 \quad \begin{array}{r} 1.50 \\ +1.50 \\ \hline 3.00 \end{array}$$

$$30 \times 4 = 1.20$$

$$3.00$$

$$+ 1.20$$

$$\hline 4.20$$

Pepe's Party

S4

This problem gives you the chance to:

- use numbers and prices in a real situation

Pepe is having a party.

There will be 20 people at the party.

Here is the price list for things Pepe needs.

Party supplies!	
Plastic knife, fork, and spoon set	30¢
Package of 10 paper plates	\$2.75
Package of 5 paper cups	\$1.50

1. Complete the table to show the prices for 20 plastic knives, 20 forks, and 20 spoons, 20 paper plates and 20 paper cups.

	Number of packages	Price
Plastic knife, fork, and spoon set	20	\$5.00
Paper plates	2	\$5.50
Paper cups	4	\$6.00

Show your calculations.

$$\begin{array}{r} 20 \\ \times 10 \\ \hline 500 \\ \hline 5000 \end{array}$$

$$\begin{array}{r} 275 \\ \times 2 \\ \hline 550 \end{array}$$

$$\begin{array}{r} 150 \\ \times 4 \\ \hline 600 \end{array}$$

2. Pepe also wants to buy 20 party hats.

A package of 8 hats costs \$1.50. The shop will not split a package.

The price of 1 hat is 30¢.

What is the cheapest price for 20 hats? \$ 4.20

Explain how you figured it out.

Since $8 \times 2 = 16$, and $\$1.50 \times 2 = \3.00 , 16 hats would be \$3.00. They would need 4 more. Since $30¢ \times 4 = \$1.20$, and $\$3.00 + \$1.20 = \$4.20$, it will cost \$4.20.

Pepe's Party

S5

This problem gives you the chance to:

- use numbers and prices in a real situation

Pepe is having a party.

There will be 20 people at the party.

Here is the price list for things Pepe needs.

Party supplies!	
Plastic knife, fork, and spoon set	30¢
Package of 10 paper plates	\$2.75
Package of 5 paper cups	\$1.50

1. Complete the table to show the prices for 20 plastic knives, 20 forks, and 20 spoons, 20 paper plates and 20 paper cups.

	Number of packages	Price
Plastic knife, fork, and spoon set	20	\$ 6.00
Paper plates	2	\$ 5.50
Paper cups	4	\$ 6.00

Show your calculations.

17.50

2. Pepe also wants to buy 20 party hats.

A package of 8 hats costs \$1.50. The shop will not split a package.

The price of 1 hat is 30¢.

What is the cheapest price for 20 hats?

\$ 4.50

Explain how you figured it out.

20 individual hats cost 6 dollars. 3 packages
of eight cost \$4.50.

Pepe's Party

S6

This problem gives you the chance to:

- use numbers and prices in a real situation

Pepe is having a party.

There will be 20 people at the party.

Here is the price list for things Pepe needs.

Party supplies!	
Plastic knife, fork, and spoon set	30¢
Package of 10 paper plates	\$2.75
Package of 5 paper cups	\$1.50

1. Complete the table to show the prices for 20 plastic knives, 20 forks, and 20 spoons, 20 paper plates and 20 paper cups.

	Number of packages	Price
Plastic knife, fork, and spoon set	20	\$ 6.00
Paper plates	2	\$ 5.50
Paper cups	4	\$ 6.00

Show your calculations.

$$\begin{aligned} & \$30 \times 20 = \$6.00 \\ & \$2.75 \times 2 = \$5.50 \\ & \$1.50 \times 4 = \$6.00 \end{aligned}$$

2. Pepe also wants to buy 20 party hats.

A package of 8 hats costs \$1.50. The shop will not split a package.

The price of 1 hat is 30¢.

What is the cheapest price for 20 hats?

\$ 4.20

Explain how you figured it out.

$8 \times 2 = 16 \text{ hats } \$1.50 \times 2 \text{ p.} = 3.00$

$4 \text{ single hats } \times \$30 = \$120$ ———— $+ = \$4.20$

Pepe's Party

S7

This problem gives you the chance to:

- use numbers and prices in a real situation

Pepe is having a party.

There will be 20 people at the party.

Here is the price list for things Pepe needs.

Party supplies!	
Plastic knife, fork, and spoon set	30¢
Package of 10 paper plates	\$2.75
Package of 5 paper cups	\$1.50

1. Complete the table to show the prices for 20 plastic knives, 20 forks, and 20 spoons, 20 paper plates and 20 paper cups.

	Number of packages	Price
Plastic knife, fork, and spoon set	20	\$6.00
Paper plates	2	\$5.50
Paper cups	4	\$6.00

Show your calculations.

$$\begin{array}{r} 30 \\ \times 20 \\ \hline 00 \\ 60 \\ \hline 600 \end{array}$$

TOTAL: \$7.50

1.50
3

S7

2. Pepe also wants to buy 20 party hats.

A package of 8 hats costs \$1.50. The shop will not split a package.

The price of 1 hat is 30¢.

What is the cheapest price for 20 hats?

\$ \$4.50

Explain how you figured it out.

30 × 20 = \$6.00, 1.50 × 3 = 4.50 4.50 cheaper

10

Pepe's Party

S8

This problem gives you the chance to:

- use numbers and prices in a real situation

Pepe is having a party.

There will be 20 people at the party.

Here is the price list for things Pepe needs.

Party supplies!	
Plastic knife, fork, and spoon set	30¢
Package of 10 paper plates	\$2.75
Package of 5 paper cups	\$1.50

1. Complete the table to show the prices for 20 plastic knives, 20 forks, and 20 spoons, 20 paper plates and 20 paper cups.

	Number of packages	Price
Plastic knife, fork, and spoon set	20	\$ 6.00
Paper plates	2	\$ 5.50
Paper cups	4	\$ 6.00

Show your calculations.

2. Pepe also wants to buy 20 party hats.

A package of 8 hats costs \$1.50. The shop will not split a package.

The price of 1 hat is 30¢.

What is the cheapest price for 20 hats?

\$ 4.50

Explain how you figured it out.

8 goes into 20 3 times $8 \times 20 = 4.50$
 $20 \times 30 = 6.00$ 450 is lower than
6.00

Pepe's Party

S9

This problem gives you the chance to:

- use numbers and prices in a real situation

Pepe is having a party.

There will be 20 people at the party.

Here is the price list for things Pepe needs.

Party supplies!	
Plastic knife, fork, and spoon set	30¢
Package of 10 paper plates	\$2.75
Package of 5 paper cups	\$1.50

1. Complete the table to show the prices for 20 plastic knives, 20 forks, and 20 spoons, 20 paper plates and 20 paper cups.

	Number of packages	Price
Plastic knife, fork, and spoon set	20	\$ 6.00
Paper plates	2	\$ 5.50
Paper cups	4	\$ 6.00

Show your calculations.

$$\begin{array}{r} 10 \\ \times 2 \\ \hline 20 \end{array}$$

$$\begin{array}{r} 5 \\ \times 4 \\ \hline 20 \end{array}$$

$$\begin{array}{r} 1 \\ \times 20 \\ \hline 20 \end{array}$$

$$\begin{array}{r} \$30 \\ \times 20 \\ \hline 00 \\ \$6.00 \end{array}$$

$$\begin{array}{r} \$2.75 \\ \times 2 \\ \hline \$5.50 \end{array}$$

$$\begin{array}{r} \$1.50 \\ \times 4 \\ \hline 6.00 \end{array}$$

2. Pepe also wants to buy 20 party hats.

A package of 8 hats costs \$1.50. The shop will not split a package.

The price of 1 hat is 30¢.

What is the cheapest price for 20 hats?

\$ 4.20

Explain how you figured it out.

$$8 \times 3 = 24 \quad \cancel{\$1.50 \times 3} = \cancel{\$4.50} \quad \text{or}$$

$$2 \times 8 = 16 \quad \cancel{\$1.50 \times 2} = \cancel{3.00} \quad 16 + 4 = 20 \quad 4 \times 30 = 1.20$$

$$3.00 + 1.20 = \$4.20$$

Pepe's Party

\$10

This problem gives you the chance to:

- use numbers and prices in a real situation

Pepe is having a party.

There will be 20 people at the party.

Here is the price list for things Pepe needs.

Party supplies!	
Plastic knife, fork, and spoon set	30¢
Package of 10 paper plates	\$2.75
Package of 5 paper cups	\$1.50

1. Complete the table to show the prices for 20 plastic knives, 20 forks, and 20 spoons, 20 paper plates and 20 paper cups.

	Number of packages	Price
Plastic knife, fork, and spoon set	20	\$ 6.00
Paper plates	20	\$ 5.50
Paper cups	20	\$ 6.00

Show your calculations.

$$.30 \times 20 = 6$$

$$2.75 \times 2 = 5.50$$

$$1.50 \times 4 = 6$$

2. Pepe also wants to buy 20 party hats.

A package of 8 hats costs \$1.50. The shop will not split a package.

The price of 1 hat is 30¢.

What is the cheapest price for 20 hats?

\$ 4.20

Explain how you figured it out.

buy two packages
and 4 hats to get
\$4.20.