
Bikes and Trikes

This problem gives you the chance to:

- solve number problems in a real context
-



The cycle shop on Main Street sells bikes (two wheels) and trikes (three wheels).

1. Yesterday, Sarah counted all of the cycles in the shop.

There were seven bikes and four trikes in the shop.

How many wheels were there on these eleven cycles? _____

Show your calculation.

2. Today, Sarah counted all of the wheels of all of the cycles in the shop.

She found that there were 30 wheels in all.

There were the **same number** of bikes as there were trikes.

How many bikes were there? _____

How many trikes were there? _____

Show how you figured it out.

Name: Snuffelupagus

1. Yesterday, Sarah counted all of the cycles in the shop.

There were seven bikes and four trikes in the shop.

How many wheels were there on these eleven cycles?

$$\begin{array}{r} \times 28 \\ \hline \end{array}$$

Show your calculation.

$$\begin{array}{r} \times 4 \\ 7 \\ \hline 28 \end{array}$$

~~x~~

~~x~~

2. Today, Sarah counted all of the wheels of all of the cycles in the shop.

She found that there were 30 wheels in all.

There were the same number of bikes as there were trikes.

How many bikes were there?

$$\begin{array}{r} \times 12 \\ \hline \end{array}$$

How many trikes were there?

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

Show how you figured it out.

Name: Rudolph

1. Yesterday, Sarah counted all of the cycles in the shop.

There were seven bikes and four trikes in the shop.

How many wheels were there on these eleven cycles?

Show your calculation.

$$1+2+3+4=10$$

x

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

x

2. Today, Sarah counted all of the wheels of all of the cycles in the shop.

She found that there were 30 wheels in all.

There were the **same number** of bikes as there were trikes.

How many bikes were there?

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

How many trikes were there?

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

Show how you figured it out.

x

by counting the bikes and the trikes

Name: Donnor

The cycle shop on Main Street sells bikes (two wheels) and trikes (three wheels).

1. Yesterday, Sarah counted all of the cycles in the shop.

There were seven bikes and four trikes in the shop.

How many wheels were there on these eleven cycles?

Show your calculation.

$$\underline{11} \times 3$$



2. Today, Sarah counted all of the wheels of all of the cycles in the shop.

She found that there were 30 wheels in all.

There were the same number of bikes as there were trikes.

How many bikes were there?

How many trikes were there?

Show how you figured it out.

$$\begin{array}{r} 30 \times 1 \\ \hline 30 \end{array}$$

It says in
the question

Name: Blitzen

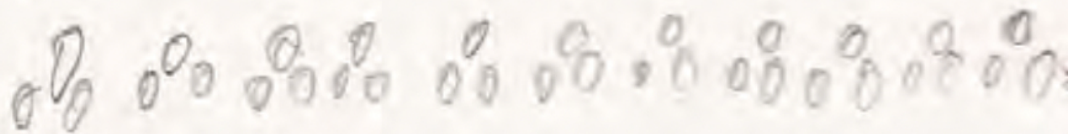
1. Yesterday, Sarah counted all of the cycles in the shop.

There were seven bikes and four trikes in the shop.

How many wheels were there on these eleven cycles?

22

Show your calculation.



2. Today, Sarah counted all of the wheels of all of the cycles in the shop.

She found that there were 30 wheels in all.

There were the **same number** of bikes as there were trikes.

How many bikes were there?

15 x

How many trikes were there?

15 x

Show how you figured it out.

$$\begin{array}{r} 15 \times \\ + 15 \times \\ \hline 30 \end{array}$$

Name: Dasher

1. Yesterday, Sarah counted all of the cycles in the shop.

There were seven bikes and four trikes in the shop.

How many wheels were there on these eleven cycles?

Show your calculation.

$$\begin{array}{r} \times 22 \text{ wheels} \\ \hline 00 \end{array}$$

2. Today, Sarah counted all of the wheels of all of the cycles in the shop.

She found that there were 30 wheels in all.

There were the same number of bikes as there were trikes.

How many bikes were there?

$$\begin{array}{r} \times 30 \text{ bikes} \\ \hline 00 \end{array}$$

How many trikes were there?

$$\begin{array}{r} \times 30 \text{ trikes} \\ \hline 00 \end{array}$$

Show how you figured it out.

I undid ^x some number of bikes as there were trikes, which is 30 so that's how I got my answer

Name: Cupid

1. Yesterday, Sarah counted all of the cycles in the shop.

There were seven bikes and four trikes in the shop.

How many wheels were there on these eleven cycles?

Show your calculation.

$$\begin{array}{l} 7 \times 2 = 14 \text{ bikes} \quad 4 \times 3 = 12 \text{ trikes} \\ 14 + 12 = 26 \checkmark \end{array}$$

26 ✓

2. Today, Sarah counted all of the wheels of all of the cycles in the shop.

She found that there were 30 wheels in all.

There were the same number of bikes as there were trikes.

How many bikes were there?

How many trikes were there?

Show how you figured it out.

$$\begin{array}{l} \cancel{30 \div 2 = 15 \div 3 = 5} \\ \cancel{15 \div 2 = 7 \text{ r } 3} \times \times \\ 30 \div 2 = 15 \div 3 = 5 \\ \begin{array}{r} 2 \overline{)15} \\ \underline{-14} \\ 1 \end{array} \end{array}$$

$7 + 5 = 12$

Name: Prancer

1. Yesterday, Sarah counted all of the cycles in the shop.
There were seven bikes and four trikes in the shop.
How many wheels were there on these eleven cycles?
Show your calculation.

$$\begin{array}{r} 7 \\ \times 2 \\ \hline 14 \end{array}$$
$$\begin{array}{r} 4 \\ \times 3 \\ \hline 12 \end{array}$$
$$\begin{array}{r} 14 \\ + 12 \\ \hline 26 \end{array}$$

26

2. Today, Sarah counted all of the wheels of all of the cycles in the shop.
She found that there were 30 wheels in all.
There were the **same number** of bikes as there were trikes.

How many bikes were there?

15 X

How many trikes were there?

10 X

Show how you figured it out.

$$\begin{array}{r} 15 \\ 2 \overline{) 30} \\ \underline{30} \\ 0 \end{array}$$

$$\begin{array}{r} 10 \\ 3 \overline{) 30} \\ \underline{30} \\ 0 \end{array}$$

Name: Dancer

1. Yesterday, Sarah counted all of the cycles in the shop.

There were seven bikes and four trikes in the shop.

How many wheels were there on these eleven cycles?

Show your calculation.

$$\begin{array}{r} \text{Seven} \times 2 = 14 \\ \text{Four} \times 3 = 12 \\ \hline 26 \end{array}$$

$$\begin{array}{r} 26 \\ \hline \end{array}$$

2. Today, Sarah counted all of the wheels of all of the cycles in the shop.

She found that there were 30 wheels in all.

There were the **same number** of bikes as there were trikes.

How many bikes were there?

How many trikes were there?

Show how you figured it out.

I Look on top of the page
re read it x

$$\begin{array}{r} 7 \times x \\ \hline 4 \times x \\ \hline \end{array}$$

Name: Bert

The cycle shop on Main Street sells bikes (two wheels) and trikes (three wheels).

1. Yesterday, Sarah counted all of the cycles in the shop.

There were seven bikes and four trikes in the shop.

How many wheels were there on these eleven cycles?

Show your calculation.

$$\begin{array}{r} 7 \\ \times 2 \\ \hline 14 \end{array} \quad \begin{array}{r} 4 \\ \times 3 \\ \hline 12 \end{array} \quad \begin{array}{r} 14 \\ + 12 \\ \hline 26 \end{array} \quad \boxed{26} \quad \begin{array}{l} \checkmark \\ \checkmark \\ \checkmark \\ \checkmark \end{array}$$

26 wheels

2. Today, Sarah counted all of the wheels of all of the cycles in the shop.

She found that there were 30 wheels in all.

There were the **same number** of bikes as there were trikes.

How many bikes were there?

How many trikes were there?

Show how you figured it out.

\times \times 0

$$\begin{array}{r} 9 \\ \times \\ \hline 4 \end{array} \quad \begin{array}{l} \times \\ \times \\ \times \\ \times \\ \times \\ \times \\ \times \\ \times \\ \times \\ \times \end{array} \quad \begin{array}{l} 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \end{array}$$

\checkmark \checkmark \checkmark

OO = bike OOO = Trike

OO OO OO OO OO OO OO OO OO

OOO OOO OOO OOO Equals 30 wheels

Name: Ernie

The cycle shop on Main Street sells bikes (two wheels) and trikes (three wheels).

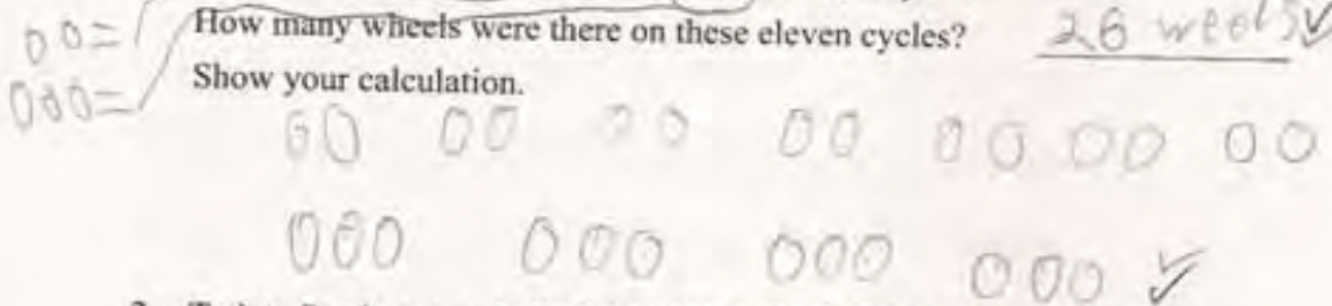
1. Yesterday, Sarah counted all of the cycles in the shop.

There were seven bikes and four trikes in the shop.

How many wheels were there on these eleven cycles?

26 wheels ✓

Show your calculation.



2. Today, Sarah counted all of the wheels of all of the cycles in the shop.

She found that there were 30 wheels in all.

There were the **same number** of bikes as there were trikes.

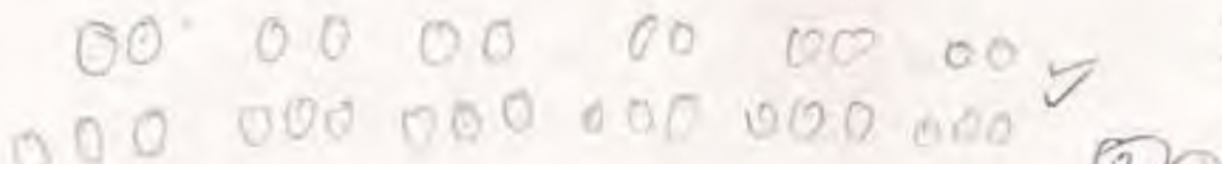
How many bikes were there?

6 ✓ ✓

How many trikes were there?

6 ✓

Show how you figured it out.



Name: Big Bird

The cycle shop on Main Street sells bikes (two wheels) and trikes (three wheels).

1. Yesterday, Sarah counted all of the cycles in the shop.

There were seven bikes and four trikes in the shop.

How many wheels were there on these eleven cycles?

26 wheels ✓

Show your calculation.

00=
000=

00 00 00 00 00 00 00

000 000 000 000 ✓

2. Today, Sarah counted all of the wheels of all of the cycles in the shop.

She found that there were 30 wheels in all.

There were the **same number** of bikes as there were trikes.

How many bikes were there?

6 ✓ ✓

How many trikes were there?

6 ✓

Show how you figured it out.

00 00 00 00 00 00 ✓
000 000 000 000 000 000

Name: Kermit

1. Yesterday, Sarah counted all of the cycles in the shop.

There were seven bikes and four trikes in the shop.

How many wheels were there on these eleven cycles?

Show your calculation.

$$\begin{array}{r} 7 \\ \times 2 \\ \hline 14 \end{array} \quad \begin{array}{r} 4 \\ \times 3 \\ \hline 12 \end{array} \quad + \quad \begin{array}{r} 14 \\ 12 \\ \hline 26 \end{array}$$

✓ 26 wheels

2 ✓

2. Today, Sarah counted all of the wheels of all of the cycles in the shop.

She found that there were 30 wheels in all.

There were the **same number** of bikes as there were trikes.

How many bikes were there?

✓ 6 ✓ 2

How many trikes were there?

✓ 6

Show how you figured it out.

2 4 6 8 10 12 14 16 18 20 22 24 26 28 30
3 5 7 9 11 13 15 17 19 21 23 25 27 29 31

$$\begin{array}{r} 6 \\ \times 5 \\ \hline 30 \end{array}$$

8

8

Name: Elmo

1. Yesterday, Sarah counted all of the cycles in the shop. There were seven bikes and four trikes in the shop. How many wheels were there on these eleven cycles? Show your calculation.

26

$$\begin{array}{r} 7 \\ \times 2 \\ \hline 14 \end{array}$$
$$\begin{array}{r} 4 \\ \times 3 \\ \hline 12 \end{array}$$
$$\begin{array}{r} 140 \\ + 120 \\ \hline 260 \end{array}$$

2. Today, Sarah counted all of the wheels of all of the cycles in the shop. She found that there were 30 wheels in all. There were the **same number** of bikes as there were trikes.

How many bikes were there?

6 ✓

How many trikes were there?

6 ✓

Show how you figured it out.

$$\begin{array}{r} 23 \\ + 7 \\ \hline 30 \end{array}$$

$$\begin{array}{l} 2+3=5 \\ 4+6=10 \\ 6+9=15 \\ 8+12=20 \\ 10+15=25 \\ 12+18=30 \end{array}$$

Nme: Gonzo

The cycle shop on Main Street sells bikes (two wheels) and trikes (three wheels)

1. Yesterday, Sarah counted all of the cycles in the shop.

There were seven bikes and four trikes in the shop.

How many wheels were there on these eleven cycles?

Show your calculation.

$$\begin{array}{r} 7 \times 2 = 14 \\ 3 \times 4 = 12 \\ \hline 26 \end{array}$$

$$\begin{array}{r} 26 \\ \hline \end{array}$$

2. Today, Sarah counted all of the wheels of all of the cycles in the shop.

She found that there were 30 wheels in all.

There were the **same number** of bikes as there were trikes.

How many bikes were there?

$$\begin{array}{r} 6 \\ \hline \end{array}$$

How many trikes were there?

$$\begin{array}{r} 6 \\ \hline \end{array}$$

Show how you figured it out.

$$\begin{array}{r} \checkmark 6 \times 2 = 12 \\ \checkmark 6 \times 3 = 18 \\ \hline 18 + 12 = 30 \end{array}$$

$$\textcircled{30}$$

Name: Miss Piggie

1. Yesterday, Sarah counted all of the cycles in the shop. There were seven bikes and four trikes in the shop. How many wheels were there on these eleven cycles?

Show your calculation.



$$2 \times 7 = 14$$
$$3 \times 4 = 12$$

$$\begin{array}{r} 14 \\ + 12 \\ \hline 26 \end{array}$$

$$\begin{array}{r} 26 \\ \hline \end{array}$$

2. Today, Sarah counted all of the wheels of all of the cycles in the shop. She found that there were 30 wheels in all. There were the same number of bikes as there were trikes.

How many bikes were there?

How many trikes were there?

Show how you figured it out.

$$\square + \square + \square + \square + \square = 5$$

\square is 1 wheel

5
10
15 ✓
20

3

8