

## Common Cure Standards Rased


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The witches are giving away free witches' hats today in preparation for Halloween. They gave away 4 hats in the first hour, 8 hats in the second hour, 12 hats in the third hour and 16 hats in the fourth hour. If this pattern continues, how many witches' hats will be given away in 9 hours?

Explain your thinking using words, numbers or pictures. Use mathematical vocabulary where appropriate.

Name $\qquad$
$\qquad$

some witches go for a broom ride on Halloween night. There were 12 witches on the first ride, 17 on the second ride, 22 on the third ride, and 27 on the fourth ride. If this pattern continues, how many witches will there be on the tenth ride?

Explain your thinking using words, numbers or pictures. Use mathematical vocabulary where appropriate.
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One ghost and 2 bats get on the first car of the Halloween train. Then 1 ghost and 2 bats get into the second car. Ghosts and bats continue to get on the Halloween train in the same way-1 ghost and 2 bats to a car. When there are 12 viders, the train starts. How many ghosts and how many bats are on the Halloween train when it starts?

Explain your thinking using words, numbers or pictures. Use mathematical vocabulary where appropriate.
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crazy things are happening in the Haunted House! The ghost gets on the elevator and presses button 8. The elevator goes to floor 3! The ghost presses button 10 and the elevator goes to floor 5! He presses button 15, and the elevator goes to floor 10! What is happening? If the ghost pushes button 21, to what floor will the go?

Explain your thinking using words, numbers or pictures. Use mathematical vocabulary where appropriate.
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Willie's Ghostbusters' Cafè just received their supplies for Halloween. willie can't believe his eyes when he opens the boxes! "I ordered 5 bags of bones, and they sent 25 !" he exclained. "I ordered 10 buckets of slime, and they sent 50 buckets! What is going on?" thought willie. Willie ordered 20 tubs of wiggly worms. How many do you think he received?

Explain your thinking using words, numbers or pictures. Use mathematical vocabulary where appropriate.
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This Halloween I had 500 pieces of candy to hand out to the trick-or-treaters in my neighborhood. I handed out 50 pieces during the first hour of Halloween. During the second hour, I handed out 62 pieces, 12 more than the first hour. During the third hour, I handed out 74 pieces, 12 nore than the previous hour. If I handed out all of the candy at this rate, how many hours did it take to hand all of it out?

Explain your thinking using words, numbers or pictures. Use mathematical vocabulary where appropriate.
name $K E$


The witches are giving away free witches' hats today in preparation for Halloween. They gave away 4 hats in the first hour, 8 hats in the second hour, 12 hats in the third hour and 16 hats in the fourth hour. If this pattern continues, how many witches' hats will be given away in 9 hours?

Explain your thinking using words, numbers or pictures. Use mathematical vocabulary where appropriate.

| (st hour | $2^{\text {nd }}$ hour | $3^{\text {rd }}$ hour | 4 th hour |
| :---: | :---: | :---: | :---: |
| 4 | 8 | 12 | 16 |
| $5^{\text {th }}$ hour | $6^{\text {th }}$ hour | $7^{\text {th }}$ hour | $8^{\text {th }}$ hour |
| 20 | 24 | 28 | 32 |

Each hour the witch gives away
4 more hats.

$$
\begin{array}{llll}
4+4=8 & 8+4=12 & 12+4=16 & 16+4=20 \\
20+4=24 & 24+4=28 & 28+4=32 & 32+4=36
\end{array}
$$

Now, I have to add all of the hats given away in a hours.

$$
4+8+12+16+20+24+28+32+36=180 \text { hats }
$$



Date

some witches go for a broom ride on Halloween night. There were 12 witches on the first ride, 17 on the second ride, 22 on the third ride, and 27 on the fourth ride. If this pattern continues, how many witches will there be on the tenth ride?

Explain your thinking using words, numbers or pictures. Use mathematical vocabulary where appropriate.

| rides | number of witches |  |
| :--- | :--- | :--- |
| 1 | 12 | $>+5$ |
| 2 | 17 | $>+5$ |
| 3 | 22 |  |
| 4 | 27 |  |
| 5 | 32 |  |
| 6 | 37 |  |
| 7 | 42 |  |
| 8 | 47 |  |
| 9 | 52 |  |
| 10 | 57 |  |

Each ride has 5 more than the last so on the tenth ride there will be 57 witches.


Date $\qquad$


One ghost and 2 bats get on the first car of the Halloween train. Then 1 ghost and 2 bats get into the second car. Ghosts and bats continue to get on the Halloween train in the same way-1 ghost and 2 bats to a car. When there are 12 riders, the train starts. How many ghosts and how many bats are on the Halloween train when it starts?

Explain your thinking using words, numbers or pictures. Use mathematical vocabulary where appropriate.

| Cars | Bats | Ghosts |
| :---: | :---: | :---: |
| 1 | 2 | 1 |
| 2 | 2 | 1 |
| 3 | 2 | 1 |
| 4 | 2 | 1 |

8 bats +4 ghosts $8+4=12$ riders when the train starts.
3. OA 9 Identify arithmetic patterns and explain them using properties of operations

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crazy things are happening in the Haunted House! The ghost gets on the elevator and presses button 8. The elevator goes to floor 3! The ghost presses button 10 and the elevator goes to floor 5! He presses button 15, and the elevator goes to floor 10! What is happening? If the ghost pushes button 21, to what floor will the go?

Explain your thinking using words, numbers or pictures. Use mathematical vocabulary where appropriate.

| button | floor |
| :---: | :---: |
| 8 | 3 |
| 10 | 5 |
| 15 | 10 |
| 21 | 16 |

$$
\begin{aligned}
& 8-3=5 \\
& 10-5=5 \\
& 15-5=5
\end{aligned}
$$

when he pushes a button the elevator goes down 5 floors, so if he floor 16
3. OA 9 Identify arithmetic patterns and explain them using properties of operations


Date


Willie's Ghostbusters' Cafè just received their supplies for Halloween. willie can't believe his eyes when he opens the boxes! "I ordered 5 bags of bones, and they sent 25 !" he exclaimed. "I ordered 10 buckets of slime, and they sent 50 buckets! What is going on?" thought willie. Willie ordered 20 tubs of wiggly worms. How many do you think he received?

Explain your thinking using words, numbers or pictures. Use mathematical vocabulary where appropriate.

$$
\begin{array}{c|cc}
\text { orders } & \text { number received } \\
\hline 5 & 25 & 5 \times \sqrt{5}=25 \\
10 & 50 & 50 \quad 10 \times 5=50 \\
20 & 100 & 20 \times 5=100 \\
& & \begin{aligned}
& \text { He received } 100 \text { tubs } \\
& \text { of wiggly worms because } \\
& \text { of hey multiplied his order } \\
& \text { the } 5 \text { each time. }
\end{aligned} \\
& \text { by }
\end{array}
$$




This Halloween I had 500 pieces of candy to hand out to the trick-or-treaters in my neighborhood. I handed out 50 pieces during the first hour of Halloween. During the second hour, I handed out 62 pieces, 12 more than the first hour. During the third hour, I handed out 74 pieces, 12 more than the previous hour. If I handed out all of the candy at this rate, how many hours did it take to hand all of it out?

Explain your thinking using words, numbers or pictures. Use mathematical vocabulary where appropriate.


I subtracted the amount of candy given
until I had none left after 7 hours.
Each hour I gave out 12 more than the hour before, so $50+12=62$

$$
\begin{aligned}
& 62+12=74 \\
& 74+12=86 \\
& 86+12=98 \\
& 98+12=110
\end{aligned}
$$

