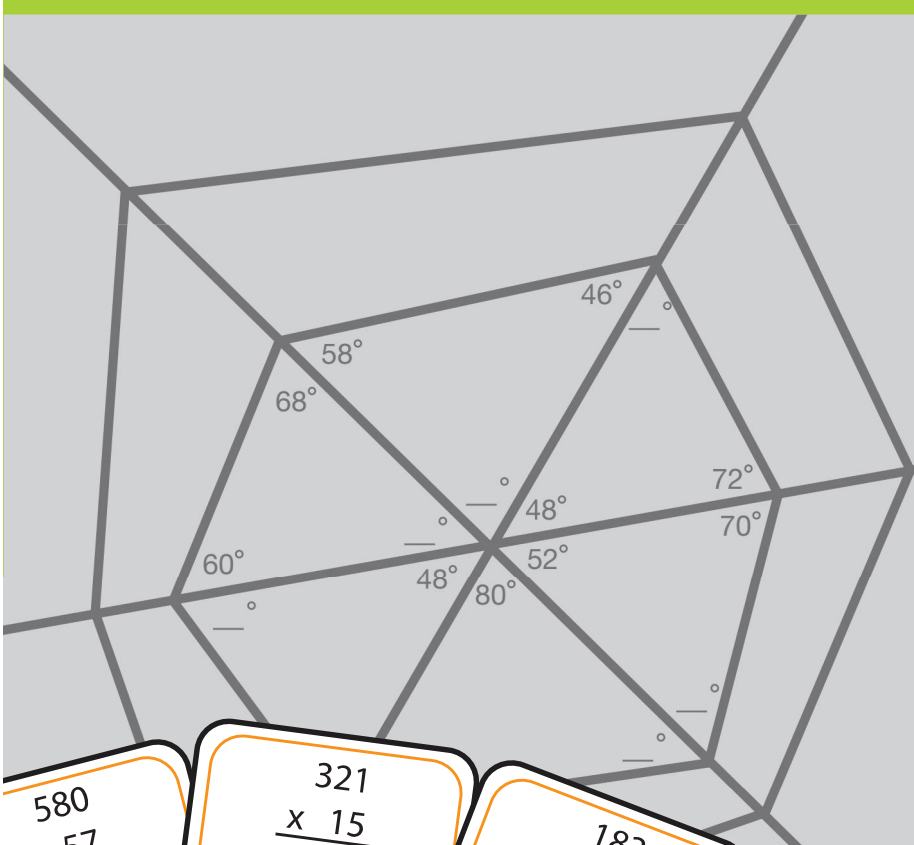


Spooky Math

5th
Grade



$$4x$$
$$16-5$$

$$8+7$$
$$\frac{62}{h}$$

$$10y+3(y-2)$$
$$a-37$$

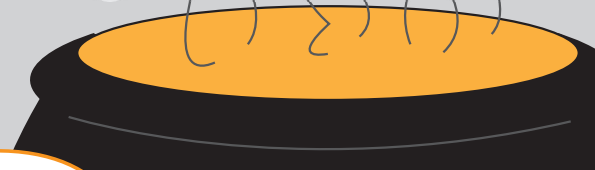
580
x 57

321
x 15

183
x 123

What is the ratio of jack-o'-lanterns to pumpkins?

Conjuring up
Expressions



$$(-12) + 6 + (-4) + (-10) = ?$$

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Certificate of Completion

Answer Sheets

** Has an Answer Sheet*

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Number Patterns

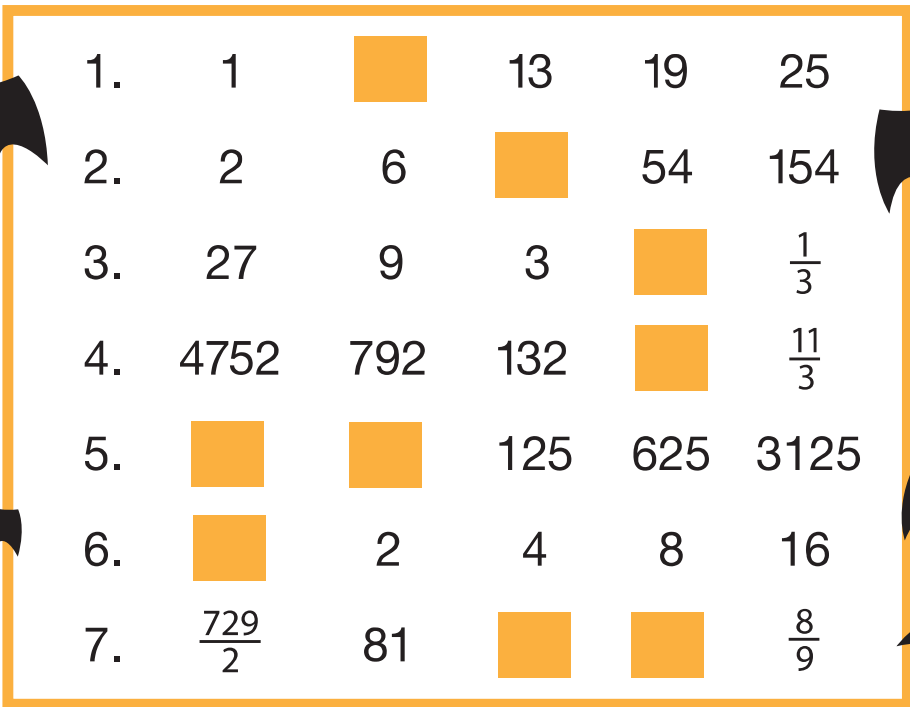
Vicki the vampire just got her invitation to the annual ghoulish gala! She is very excited about this year's event, but the invitation is encoded in a "letter-number" cipher. This is when letters are replaced by numbers. Solve the number pattern problems below to decode the cipher and help Vicki figure out the location of this year's party!

The numbers follow a pattern and you will need to add, subtract, divide, or multiply to find the missing numbers.

Example:

2 6 10 14 18 (+4) The letter is N

| | | | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|
| A | B | C | D | E | F | G | H | I | J | K | L | M |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| N | O | P | Q | R | S | T | U | V | W | X | Y | Z |
| 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 |






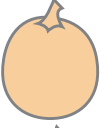

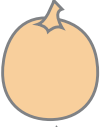





- 
- 1 13 19 25
 - 2 2 6 54 154
 - 3 27 9 3 $\frac{1}{3}$
 - 4 4752 792 132 $\frac{11}{3}$
 - 5 125 625 3125
 - 6 2 4 8 16
 - 7 $\frac{729}{2}$ 81 $\frac{8}{9}$

Join us for the annual Ghoul Gala!
10:00 pm at the:

1 2 3 4 5a 5b 6 7a 7b

Nightmare Number Patterns

Figure out what whole number or fraction is multiplied or divided to get the next number in the pattern. Write the number pattern in the pumpkin next to each line and then use it to fill in the missing numbers.

| | | | | | | | | | |
|---|-----|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
|  | 1. | 324 | 108 | <input type="text"/> | <input type="text"/> | 4 | <input type="text"/> | <input type="text"/> | $\frac{4}{27}$ |
|  | 2. | $\frac{3}{25}$ | <input type="text"/> | 3 | 15 | <input type="text"/> | 375 | <input type="text"/> | <input type="text"/> |
|  | 3. | <input type="text"/> | $\frac{3}{2}$ | <input type="text"/> | 6 | <input type="text"/> | <input type="text"/> | 48 | 96 |
|  | 4. | 1458 | <input type="text"/> | <input type="text"/> | <input type="text"/> | 18 | 6 | <input type="text"/> | $\frac{2}{3}$ |
|  | 5. | 1 | 3 | <input type="text"/> | <input type="text"/> | <input type="text"/> | 243 | <input type="text"/> | 2187 |
|  | 6. | <input type="text"/> | <input type="text"/> | 96 | 384 | <input type="text"/> | 6144 | 24,576 | <input type="text"/> |
|  | 7. | 224 | <input type="text"/> | <input type="text"/> | 28 | 14 | <input type="text"/> | $\frac{7}{2}$ | <input type="text"/> |
|  | 8. | <input type="text"/> | 891 | <input type="text"/> | <input type="text"/> | <input type="text"/> | 176 | $\frac{176}{3}$ | $\frac{176}{9}$ |
|  | 9. | 31,232 | <input type="text"/> | 1952 | 488 | <input type="text"/> | $\frac{61}{2}$ | <input type="text"/> | <input type="text"/> |
|  | 10. | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | 35 | 7 | $\frac{7}{5}$ | $\frac{7}{25}$ |
|  | 11. | $\frac{9}{2}$ | 9 | <input type="text"/> | <input type="text"/> | 72 | <input type="text"/> | <input type="text"/> | 576 |
|  | 12. | $\frac{64}{25}$ | <input type="text"/> | <input type="text"/> | 5 | <input type="text"/> | <input type="text"/> | $\frac{625}{64}$ | $\frac{3125}{256}$ |
|  | 13. | <input type="text"/> | 2 | 6 | <input type="text"/> | <input type="text"/> | 162 | 486 | <input type="text"/> |

Adding Integers

Add each equation below with positive and negative integers.

1. $16 + 6 =$

2. $1 + (-4) =$

3. $(-5) + (-3) =$

4. $(-14) + 5 =$

5. $(-3) + 3 =$

6. $(-7) + 10 =$

7. $2 + 9 =$

8. $(-8) + 6 =$

9. $(-2) + (-4) =$

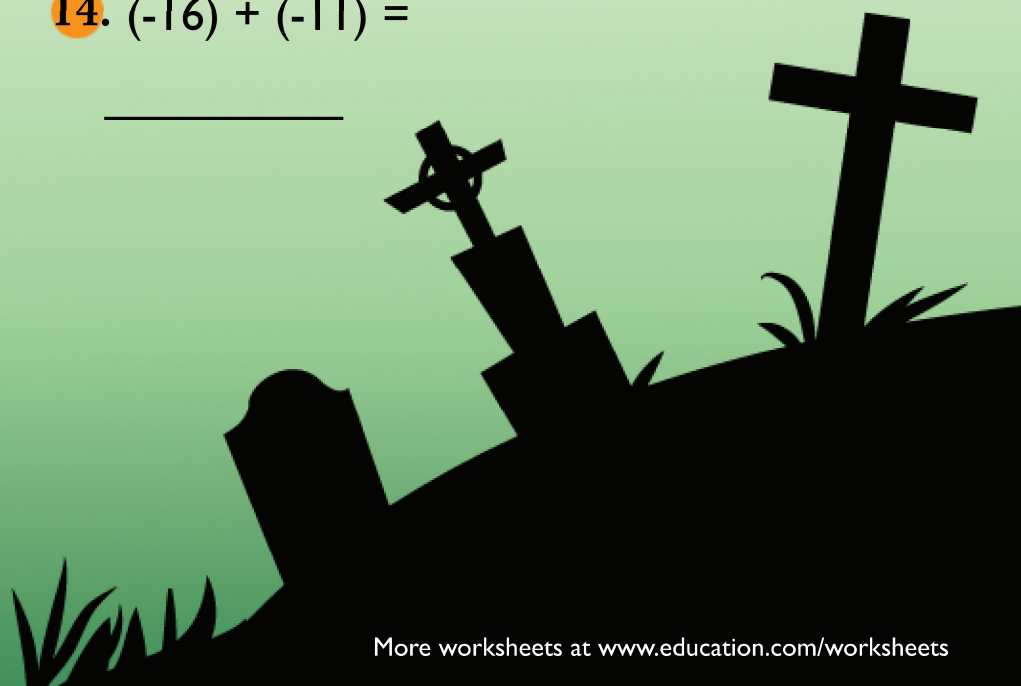
10. $(-5) + 10 =$

11. $(-12) + 3 =$

12. $(-8) + 13 =$

13. $9 + (-14) =$

14. $(-16) + (-11) =$



Adding Integers

Add each equation below with positive and negative integers.



1. $3 + (-4) + (-7) + 6 =$

2. $12 + 5 + 3 + (-4) =$

3. $10 + 4 + (-2) + 9 =$

4. $5 + 5 + 6 + (-5) =$

5. $(-1) + (-4) + (-3) + (-1) =$

6. $(-12) + 6 + (-4) + (-10) =$

7. $20 + 2 + 2 + (-7) =$

8. $(-7) + (-12) + (-4) + (-3) =$

9. $6 + 4 + (-4) + 8 =$



Adding Integers

Find the missing addend to each equation.

1. _____ + (-2) = 8

2. (-9) + _____ = (-15)

3. (-6) + _____ = (-11)

4. _____ + (-2) = (-5)

5. _____ + (-4) = 10

6. _____ + (-6) = (-12)

7. 15 + _____ = 5

8. _____ + 9 = 7

9. (-4) + _____ = 11



Adding Integers



Find the missing addend to each equation.

1. $(-8) + \underline{\quad\quad\quad} + 3 = (-12)$

2. $(-9) + 5 + \underline{\quad\quad\quad} = (-18)$

3. $\underline{\quad\quad\quad} + 3 + (-4) = 7$

4. $10 + (-5) + \underline{\quad\quad\quad} = 16$

5. $(-3) + (-5) + \underline{\quad\quad\quad} = (-8)$

6. $4 + (-5) + \underline{\quad\quad\quad} = (-3)$

7. $2 + \underline{\quad\quad\quad} + (-5) = (-5)$

8. $8 + \underline{\quad\quad\quad} + (-10) = (-5)$

9. $(-3) + \underline{\quad\quad\quad} + (-5) = (-17)$

