Spooky Math

5th Grade

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Spooky Math

** Has an Answer Sheet*

Number Patterns

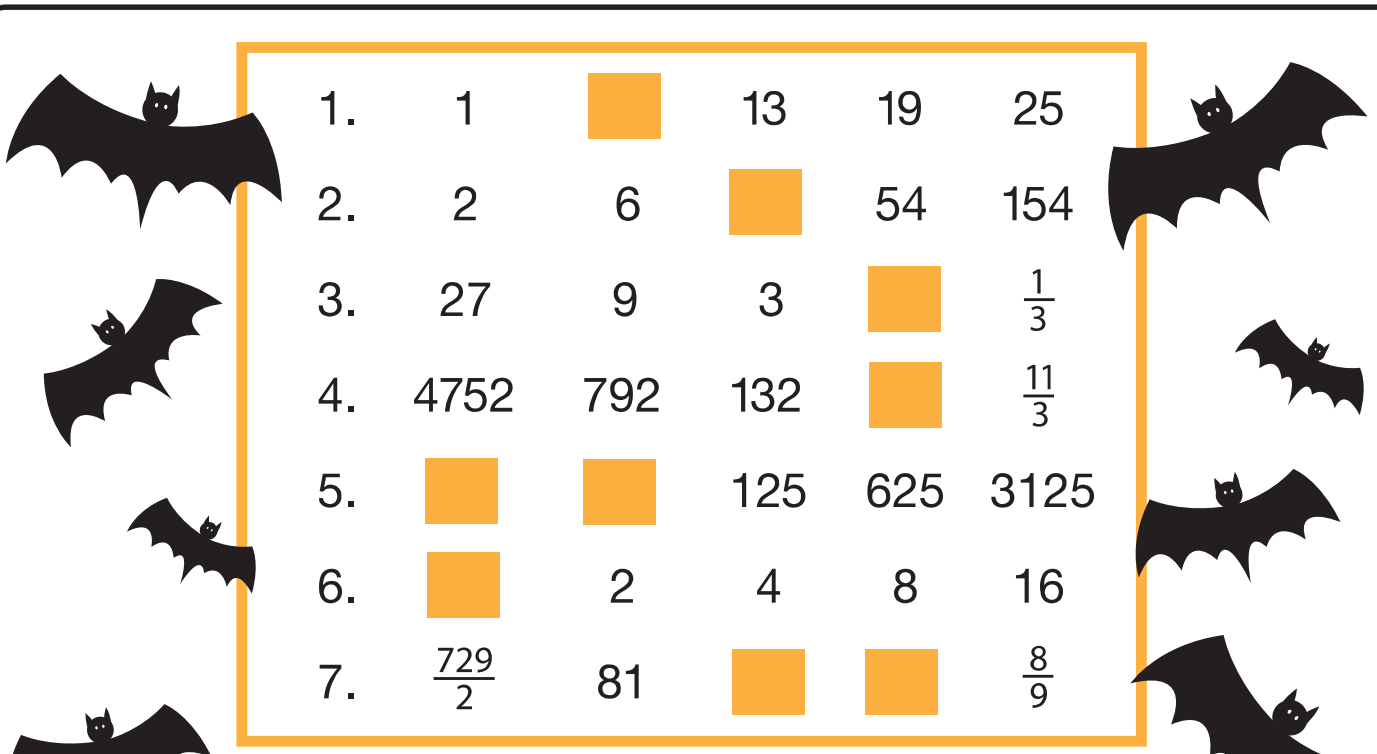
Vicki the vampire just got her invitation to the annual ghoul gala! She is very excited about this year's event, but the invitation is encoded in a "letter-number" cipher. This is when letters are replaced by numbers. Solve the number pattern problems below to decode the cipher and help Vicki figure 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 1	B 2	C 3	D 4	E 5	F 6	G 7	H 8	I 9	J 10	K 11	L 12	M 13
N 14	O 15	P 16	Q 17	R 18	S 19	T 20	U 21	V 22	W 23	X 24	Y 25	Z 26



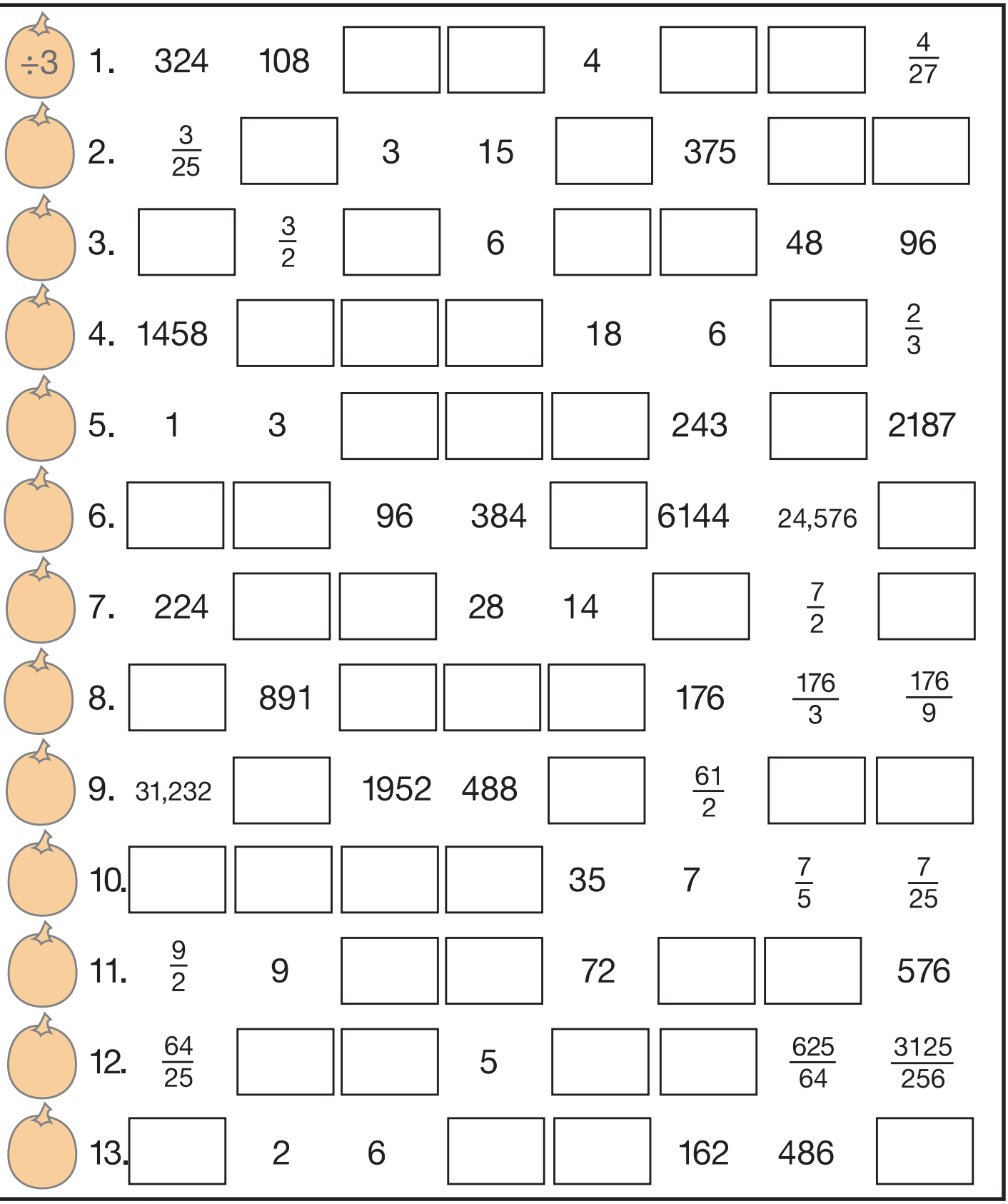
1.	1	☐	13	19	25
2.	2	6	☐	54	154
3.	27	9	3	☐	$\frac{1}{3}$
4.	4752	792	132	☐	$\frac{11}{3}$
5.	☐	☐	125	625	3125
6.	☐	2	4	8	16
7.	$\frac{729}{2}$	81	☐	☐	$\frac{8}{9}$

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.



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

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) = _____

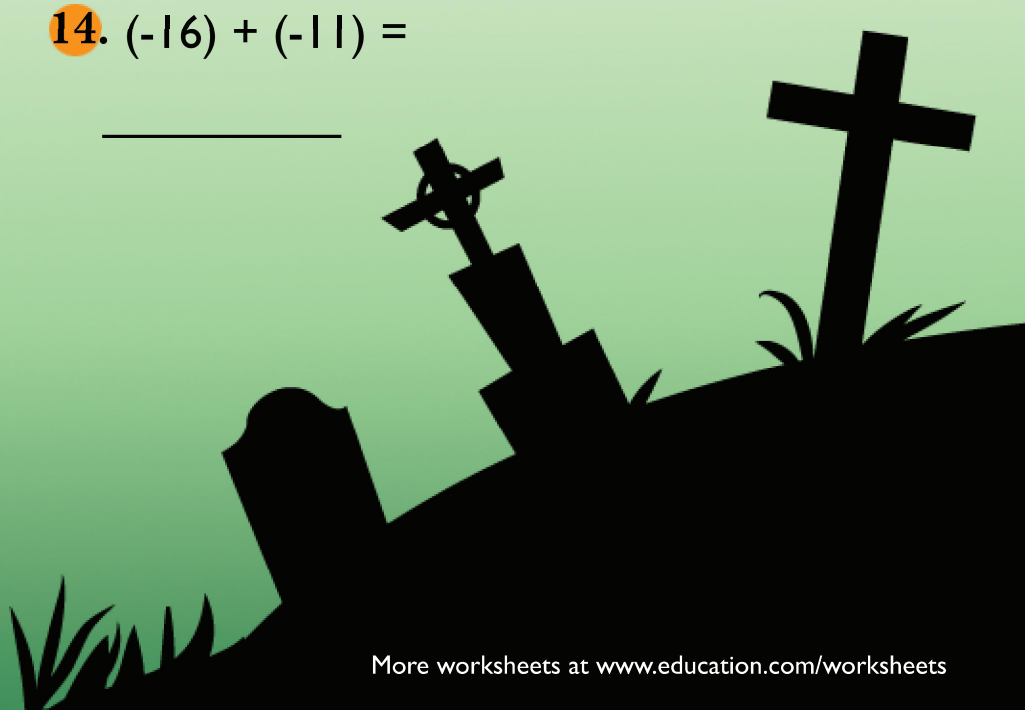
10. (-5) + 10 = _____

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) + _____ + 3 = (-12)

_____

2. (-9) +5 +_____ = (-18)

_____

3. _____ + 3 + (-4) = 7

_____

4. 10 + (-5) + _____ = 16

_____

5. (-3) + (-5) + _____ = (-8)

_____

6. 4 + (-5) +_____ = (-3)

_____

7. 2 + _____ +(-5) = (-5)

_____

8. 8 + _____ +(-10) = (-5)

_____

9. (-3) + _____ +(-5) = (-17)

_____