

1.) $4 + 7 =$	2.) $4 - 9 =$	3.) $-7 - 9 =$	4.) $8 - (-9) =$	5.) $-6 - (-12) =$	6.) $-6 + 8 - 12 =$	7.) $4 - 9 + 8 =$	8.) $5 - (-9) - (-6) =$

Integers

Name _____

$(-6) - (0) =$

$(-7) - (+8) =$

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

$(+2) + (-6) =$

$(+2) + (+8) =$

$(-8) - (-8) =$

$(-7) - (+1) =$

$(+1) - (+9) =$

$(0) - (+8) =$

$(+9) - (-6) =$

$(-2) + (-6) =$

$(+5) + (+3) =$

$(-1) + (+3) =$

$(+2) + (+2) =$

$(+7) - (-3) =$

$(-9) - (-9) =$

$(+2) - (0) =$

$(-6) - (+8) =$

$(-3) + (-7) =$

$(+5) - (+1) =$

$(-8) + (+7) =$

$(-1) - (-1) =$

$(+8) - (+2) =$

$(-4) - (+8) =$

$(+2) + (+3) =$

$(+3) + (-1) =$

$(+7) - (+7) =$

$(-4) - (+4) =$

$(-5) - (-8) =$

$(0) - (+4) =$

$(-9) - (+7) =$

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

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

$(-4) - (-9) =$

$(-8) - (+6) =$

$(-7) + (0) =$

$(+6) - (+8) =$

$(-1) + (-4) =$

$(-8) - (-6) =$

$(-8) - (-3) =$

$(+7) - (-6) =$

$(+9) - (+7) =$

$(+9) - (0) =$

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

$(-3) + (-8) =$

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

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

$(-1) - (-1) =$

$(+9) - (-6) =$

$(+6) - (-2) =$

$(-5) + (+1) =$

$(-4) - (-5) =$

$(0) - (-1) =$

$(-3) - (+6) =$

Assignment

Date _____ Period _____

Find each quotient.

1) $18 \div (-6) =$

2) $72 \div 6 =$

3) $-49 \div 7 =$

4) $(-44) \div 4 =$

5) $-27 \div (-3) =$

6) $(-42) \div 6 =$

7) $-8 \div (-4) =$

8) $-225 \div 15 =$

9) $-143 \div 13 =$

10) $84 \div (-6) =$

11) $20 \div 2 =$

12) $39 \div (-3) =$

13) $66 \div 11 =$

14) $96 \div 8 =$

15) $132 \div (-11) =$

16) $12 \div (-6) =$

17) $(-6) \div 6 =$

18) $70 \div (-7) =$

19) $150 \div (-15) =$

20) $-644 \div 28 =$

Evaluate each expression.

21) $6 + (-6) =$

22) $(-4) - (-7) =$

23) $(-3) + (-5) =$

24) $5 - 6 =$

25) $(-7) + 4 =$

26) $(-6) - (-2) =$

27) $5 + (-6) =$

28) $(-7) - (-5) =$

29) $(-1) + 6 =$

30) $(-4) + 8 =$

Find each quotient.

31) $-21 \div 3$

32) $-90 \div 10 =$

33) $121 \div (-11) =$

34) $(-63) \div 9 =$

35) $-112 \div 14$

36) $36 \div (-4) =$

37) $-52 \div (-4) =$

38) $-30 \div 15$

39) $-135 \div (-15) =$

40) $0 \div (-11) =$

Find each product.

41) $(-13) \times (-15) =$

42) $5 \times (-14) =$

43) $-7 \times (-13) =$

44) $2 \times (-9) =$

45) $0 \times (-16) =$

46) $-8 \times (-9) =$

47) $(-2) \times (-20) =$

48) $(-17) \times 18 =$

49) $(-6) \times (-17) =$

50) $(-18) \times 17 =$

Practice Quiz on Adding and Subtracting Integers

a) $(3) - (3) =$

b) $(-5) + (-7) =$

c) $(-3) - (-3) =$

d) $(-7) - (-4) =$

e) $(10) - (-3) =$

f) $(5) + (-10) =$

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

h) $(2) - (-9) =$

i) $(-9) - (-7) + 2 =$

j) $(-8) - (-6) + 20 =$

Assignment

Date _____ Period _____

Evaluate each expression.

1) $5 - (1 + 3)$

2) $6 + 5 \times 5$

3) $6 + 4 + 1$

4) $3 - 10 \div 5$

5) $5 \times 6 + 6$

6) $6^2 - 1$

7) $5 \div (3 + 2)$

8) $2(3 - 2)$

9) $4 - (1 - 1)$

10) $4 + 3^2$

11) $\left(-\frac{24}{8}\right) - ((-8) - 3)$

12) $\frac{(-9) \times 2}{-3} - 3$

13) $\frac{(-11) + 5}{(-1) - 1}$

14) $\frac{6}{2^2 - (-2)}$

15) $(-8) - \frac{8}{8} - (-7)$

16) $(-5) \times 10 + (-8) - 1$

17) $-\frac{15}{1^2 - 6}$

18) $\frac{12}{3} - (7 - 2)$

19) $7 + 1 - (-7) - (-6)$

20) $1 - \frac{29 - 1}{-7}$

$$21) \frac{8}{(-6) - 2} - (-5) - 3$$

$$22) \frac{15}{(-8) + 4 - (-8) - 9}$$

$$23) \frac{26 - ((-9) + 8)}{3} - 4$$

$$24) 8(2 - 3) - 10 \times (-3)$$

$$25) (8 - 10 - ((-5) + 7)) \times (-8)$$

Answers

1) 1 2) 31 3) 11 4) 1 5) 36 6) 35 7) 1 8) 2 9) 4

10) 13 11) 8 12) 3 13) 3 14) 1 15) -2 16) -59 17) 3 18) -1

19) 21 20) 5 21) 1 22) -3 24) 22 25) 32

Order of Operations Quiz

1. $(-36) \div (-4) + 4$

2. $(8) + (-2) \times (-4)$

3. $5 - 3 + (-4) \times 2$

4.
$$\frac{32}{(-6)(-2)-4}$$

5. $(-24) \div 12 + (-3)(-4)$

Order of Operations Quiz

6.
$$\frac{4(-3)+6(-4)}{6(-1)}$$

7.
$$\frac{[19-(-5)] \div (-3)}{2(-4)}$$

8.
$$\frac{32 \div 4 - (-28) \div 7}{12 \div (-4)}$$

9.
$$\frac{[(-9)-(-2)] \times [8+(-4)]}{(-4) \div (-2)}$$

10.
$$\frac{[(-2)+(-3)] + [(-2) \times (-3)]}{(-2) \times (3) + [(-2)+(3)] - (-4)}$$

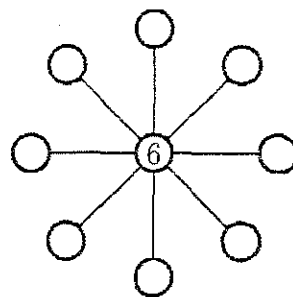
Problem of the Week

Problem C

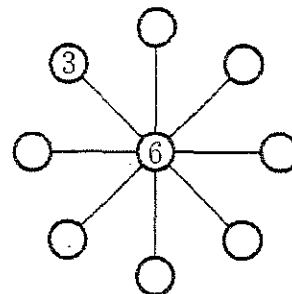
The Sun Wheel Game

In “The Sun Wheel Game”, two players, Arvil and Bob, alternate turns placing discs numbered 1 to 9 in the circles on the board. Arvil goes first. Each number can only be used once. The object of the game is to be the first to place a disc so that the sum of the 3 numbers along a line through the centre circle is 15.

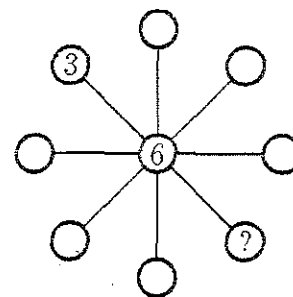
On the first move, Arvil placed a 6 in the centre circle. This is shown on the diagram to the right.



Bob then placed a 3 in one of the outside circles on his first turn. This is shown on the diagram to the right.



Arvil places some number in the space marked with a question mark on his second turn. The diagram to the right shows the board after Arvil's first two moves and Bob's first move.



What are the possible moves that Arvil could make on his second turn so that no matter what Bob follows with on his second turn, Arvil can win on his third turn? Justify your answer.

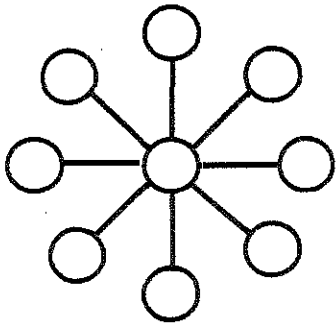


The Sun Wheel Game Solution.

Question: See the back of this page.

Solution: The only number Avril can place in the circle with a question mark is _____.
The reason is _____

Visual Explanation:

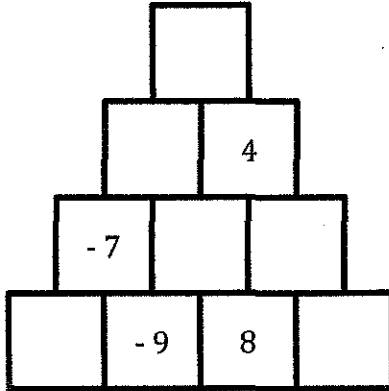


Summary: I was able / not able to answer this question because _____

Name _____ Blk _____

Problem of the Day

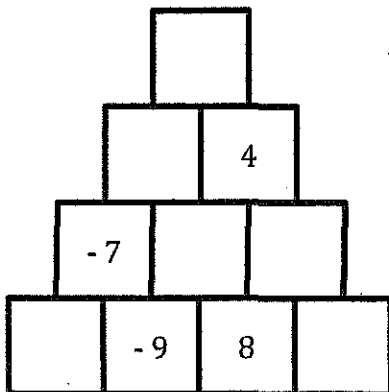
Complete the pyramid by filling in the missing numbers. Each number is the sum of the numbers in the two boxes below it.



Name _____ Blk _____

Problem of the Day

Complete the pyramid by filling in the missing numbers. Each number is the sum of the numbers in the two boxes below it.



ADDING AND SUBTRACTING INTEGERS

4. Subtract using a number line.

Remember the rule when subtracting a negative.

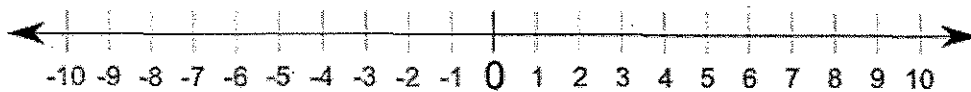
If you are changing the sign please rewrite the equation.

Example: $(2) - (-4) = (2) + (4) = 6$

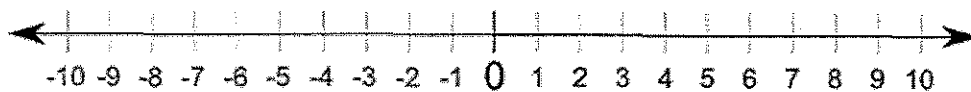
a) $(+1) - (+5) =$



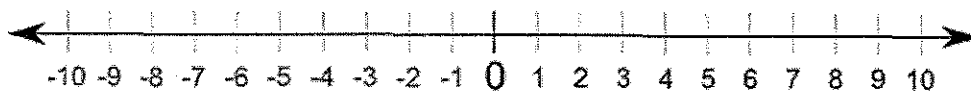
b) $(+7) - (-2) =$



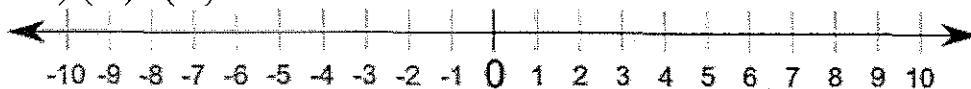
c) $(-5) - (+3) =$



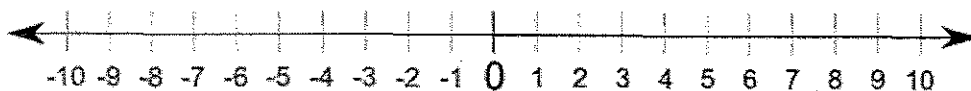
d) $(-8) - (-1) =$



e) $(+8) - (-8) =$



f) $(-10) - (-3) =$



5. Subtract.

a) $(+4) - (+1)$

d) $(-5) - (-9)$

b) $(-10) - (-5)$

e) $(+3) - (-8)$

c) $(-9) - (+3)$

f) $(-5) - (+5)$

ADDING AND SUBTRACTING INTEGERS

1. Add using a number line.

a) $(+3) + (+5) =$

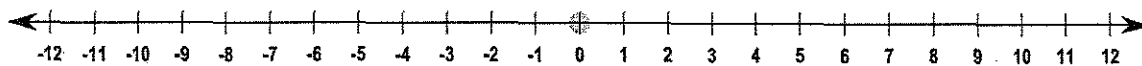
b) $(-8) + (-4) =$

c) $(+6) + (+3) =$

d) $(+4) + (-2) =$

e) $(-8) + (+5) =$

f) $(-4) + (+8) =$



2. Add

a) $(-5) + (-6)$

d) $(-4) + (+2)$

b) $(+5) + (+1)$

e) $(-9) + (+9)$

c) $(-3) + (-6)$

f) $(-7) + (+2)$

3. The temperature was -5°C . It then rose 8°C . What was the final temperature?
Use integers to solve the problem.

4. Add

a) $(-5) + (-6)$

d) $(-11) + (+2)$

b) $(+4) + (+1)$

e) $(-9) + (+19)$

c) $(-9) + (-6)$

f) $(-18) + (+1)$