

Name: KEY

Date: 9 SEPT 2019 Block: \_\_\_\_\_

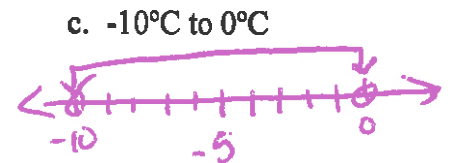
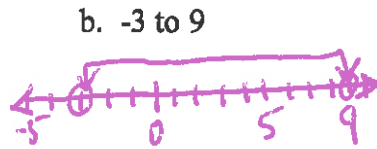
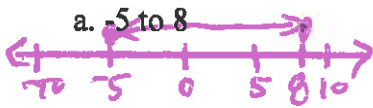
**1. Write an integer for each statement**

- |                             |       |                    |        |                               |        |
|-----------------------------|-------|--------------------|--------|-------------------------------|--------|
| a. A gain of \$15           | $+15$ | b. \$200 deposit   | $+200$ | c. 29°C below                 | $-29$  |
| d. 10 minutes earlier       | $+10$ | e. 20 kg heavier   | $+20$  | f. loss of 10 kg              | $-10$  |
| g. \$67 in debt             | $-10$ | h. 40 mm removed   | $-40$  | i. rise of 15°C               | $+15$  |
| j. \$40 withdrawal          | $-40$ | k. \$10 profit     | $+10$  | l. \$5 reduction              | $-5$   |
| m. 25 m longer              | $+25$ | n. 5 point penalty | $-5$   | o. 2 floors down              | $-2$   |
| p. 8 L poured into a bucket | $+8$  | q. 2 L leaked out  | $-2$   | r. 120 m increase in altitude | $+120$ |

**2. Write the opposite of**

- |                                   |        |                          |        |                             |       |
|-----------------------------------|--------|--------------------------|--------|-----------------------------|-------|
| a. A loss of \$350                | $+350$ | b. a 150 kg gain in mass | $-150$ | c. An 80 m loss of altitude | $+80$ |
| d. an 6°C decrease in temperature | $+6$   | e. 20 points scored      | $-20$  | f. \$20 paid                | $-20$ |

**3. Draw separate number lines and illustrate each set of integers**



**4. Which integer is greater**

- |                     |          |          |
|---------------------|----------|----------|
| a. <u>-18</u> , -25 | b. -9, 3 | c. 0, -7 |
|---------------------|----------|----------|

**5. Arrange in order from least to greatest**

- |                     |                       |                      |
|---------------------|-----------------------|----------------------|
| a. 15, 0, -8, 6, -2 | b. -8, -1, 0, -14, 3  | c. -9, -5, 11, -8, 4 |
| $-8, -2, 0, 6, 15$  | $-14, -8, -1, 0, 3$   | $-9, -8, -5, 4, 11$  |
| d. 3, -4, 0, 5, -8  | e. -6, 2, -10, -9, 13 | f. 5, -8, 0, 7, -2   |
| $-8, -4, 0, 3, 5$   | $-10, -9, -6, 2, 13$  | $-8, -2, 0, 5, 7$    |

**6. Use the symbols < (less than), > (greater than), or = (equal to) to compare integers**

- |                |                |               |
|----------------|----------------|---------------|
| a. $-5 < 5$    | b. $7 > 0$     | c. $13 = +13$ |
| d. $61 > -70$  | e. $-25 < -10$ | f. $-8 > -18$ |
| g. $-14 < -7$  | h. $8 > -15$   | i. $-19 < 14$ |
| j. $-35 < -12$ | k. $0 < 18$    | l. $+21 = 21$ |

7. Add the following integers.

a.  $(-8) + (-20) = -28$

b.  $(-24) + (+2) = -22$

c.  $36 + (-9) = 27$

d.  $-3 + -4 = -7$

e.  $(+2) + 7 = 9$

f.  $(-8) + 3 = -5$

g.  $-16 + 14 = -2$

h.  $(+19) + (+16) = 35$

i.  $-10 + 3 = -7$

j.  $-30 + (+15) = -15$

k.  $5 + 9 = 14$

l.  $-7 + -15 = -22$

n.  $(-16) + (+8) = -8$

o.  $(-14) + 14 = 0$

p.  $(+16) + -13 = 3$

8. Determine the missing number.

a.  $8 + (-5) = 3$

b.  $7 + -9 = -2$

c.  $-11 + -5 = -16$

d.  $9 + -12 = -3$

e.  $-8 + 24 = 16$

f.  $-3 + 3 = 0$

g.  $28 + -16 = 12$

h.  $-4 + -6 = -10$

i.  $-12 + 30 = 18$

j.  $-23 + 11 = -12$

l.  $24 + -27 = -3$

m.  $-11 + 6 = -5$

n.  $9 + (-7) = 2$

o.  $9 + -19 = -10$

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

9. Solve the following Problems

- a. A number increased by 13 is -9. What is the number?

$? + 13 = -9$

$(-22)$

- c. Seven greater than a number is 13. Find the number.

$? + 7 = 13$

$(6)$

- e. Four more than a number increased by 5 is 12. Find the number.

$? + 4 + 5 = 12$

$(3)$

- b. Eight more than a number is 25. Find the number.

$? + 8 = 25$

$(17)$

- d. Find a number three more than the sum of 4 and -9.

$4 + (-9) + 3 = ?$

$(-2)$

- f. Find a number nine more than the sum of 13 and 5.

$13 + 5 + 9 = ?$

$(27)$

10. Solve the following problems.

- a. A hot air balloon is at a height of 134 m. The pilot increases the height by 46 m. What is the new height?

$134 + 46 = 180m$

- b. A Bank account has a \$257 balance. A deposit is made for \$329. What is the new balance?

$257 + 329 = \$586$