What Should You Do If You Are Surrounded By 20 Lions, 15 Tigers And 10 Leopards?

Do any exercise below and find your answer in one of the boxes at the bottom of the page. Write the letter of the exercise in this box. (To make it easier to find your answer, the answers are arranged in order from smallest to largest.) Keep working and you will discover the answer to the title question.

Y $^-6 + 2 =$

O $3 - ^-7 =$

D $9 + ^-4 =$

E $^-7 + ^-2 =$

U $^-3 - ^-20 =$

O $^-16 + 18 =$

T $1 - 12 =$

A $4 + ^-22 =$

F $^-4 - 10 =$

O $31 - ^-6 =$

A $^-3 + 15 =$

T $^-4 + ^-25 =$

P $37 - 12 =$

O $17 - 18 =$

S $10 + ^-2 =$

E $^-11 - ^-4 =$

U $^-30 - 20 =$

O $^-1 - ^-8 =$

T $^-17 + 2 =$

N $22 + ^-9 =$

R $^-20 - ^-8 =$

U $^-32 + 35 =$

F $60 - ^-15 =$

J $10 + 6 =$

D $^-5 - ^-20 =$

H $4 - 14 =$

T $12 + ^-6 =$

S $^-30 - 13 =$

I $^-8 + ^-9 =$

O $^-18 - ^-5 =$

P $14 + ^-3 =$

F $15 - ^-45 =$

R $^-7 + 1 =$

J $^-32 + ^-32 =$

M $^-1 - ^-20 =$

W $5 + ^-25 =$

N $16 + ^-12 =$

R $^-48 + 43 =$

M $2 - 10 =$

T $^-6 + 15 =$

R $^-69 - ^-69 =$

G $50 + ^-53 =$

-64	-50	-43	-29	-20	-18	-17	-15	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-1
0	2	3	4	5	6	7	8	9	10	11	12	13	15	16	17	19	25	37	60	75

DAFFYNITION DECODER

TWIN: _____

-980 -7 5181 476 -7 534 19 542 73 -115 476 -382

CARROT JUICE: _____

-254 476 19 542 534 -129 -7 -980 -607

MALE SURFER: _____

60 476 -7 -129 633 542 19 -444 -129 476 19 -589

TO DECODE THESE THREE DAFFYNITIONS, FOLLOW THESE DIRECTIONS:

Work any problem below and find your answer in the code. Each time the answer appears in the code, write the letter of that problem above it.

KEEP WORKING AND YOU WILL DECODE DEFINE PRINT.

(L) $-78 + -37 =$

(C) $-562 - 45 =$

(E) $-81 - -623 =$

(V) $762 + -129 =$

(Y) $17 - 399 =$

(D) $-808 + 219 =$

(T) $445 - -89 =$

(B) $356 + -800 =$

(I) $-490 + -490 =$

(H) $671 - 925 =$

PROBLEMS — 3 mark each { equation, answer sentence.

(M) Temperature in Tahiti: 27°C.
Temperature in Siberia: -33°C.
What is the difference in these temperatures?

(P) Horatio Hornswoggle was born:
57 B.C.
Horatio Hornswoggle died:
16 A.D.
How old was Horatio when he died?

(O) Bank account balance: $357.
Check written for: $486.
What was the new balance?

(F) Altitude of mountain climber:
4572 meters.
Altitude of submarine commander: -609 meters.
What is the difference in these altitudes?

(A) The Roman Republic was established: 509 B.C.
The Roman Empire fell 985 years later.
In what year did the Empire fall?

(R) Altitude of scuba diver:
-12 meters.
Altitude of shark: -31 meters.
What is the difference in these altitudes?

(N) Temperature at 8:00 A.M.: -15°C.
Temperature rose 8°C during the next hour. What was the temperature at 9:00 A.M.?

EXAMPLE:

$(+3) + (-4) + (-6) - (+8) - (-7) =$

$(+3) + (-4) + (-6) + (-8) + (+7) =$ ← Rewrite as an addition question.

$[(+3) + (+7)] + [(-4) + (-6) + (-8)] =$ ← Combine all positive and negative numbers together.

$(+10) + (-18) = -8$ ←Subtract and keep the sign of the numerically larger number.

A. Find the sum or difference of each of the following.

1. $(+5) + (+3)$

2. $(-6) + (-2)$

3. $(-8) + (+4)$

4. $(-9) + (-3)$

5. $(-8) + (-2)$

6. $(-6) - (-3)$

7. $(-8) - (+2)$

8. $(-7) + (-2)$

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

10. $(+8) - (-9)$

11. $(+6) + (+2) + (+4)$

12. $(-3) + (-2) + (-3)$

13. $(-5) + (-2) + (+2)$

14. $(-5) + (+2) + (+2)$

15. $(-5) + (-2) - (+2)$

16. $(+2) - (+6) + (-2)$

17. $(-5) + (-9) + (-3)$

18. $(-2) - (+5) + (-4)$

19. $(-7) + (+6) + (-3)$

20. $(+7) + (8) + (2)$

21. $(-10) + (-8) + (+6) - (+2)$

22. $(-5) + (-3) - (+4)$

23. $(+2) - (+6) + (-5) - (-9)$

24. $(-7) + (+3) + (-5) + (+2)$

25. $(-8) + (-4)$

26. $(-8) - (+4)$

27. $(+5) - (+3) - (+2) + (-1)$

28. $(+22) + (-86) + (+30)$

29. $(+15) + (-13) - (+2) - (-7)$

30. $(+16) + (-18) + (+5) - (+3)$

31. $(-5) + (-7) + (-3)$

32. $(-7) + (-6) - (+5)$

33. $(-8) + (-2) + (-6)$

34. $(+8) + (+2) + (+6)$

35. $(+7) + (+6) - (-5)$

36. $(+9) + (+3) + (-6)$

37. $(-82) - (-41) + (-41)$

38. $(-16) + (-15) - (+13)$

39. $(+2) + (-6) - (+8) - (-5)$

40. $(+2) + (-6) - (+8) + (+5)$

What Did Cupid Say When Asked: "Where Is There Honey Underground?"

Do each exercise and find your answer in the answer column.
Cross out the letter next to it. When you finish, the answer to the title question will remain.

N	9
E	13
P	21
W	4
O	0
N	20
S	-12
T	5
I	-15
S	3
E	100
Y	-14
M	96
D	-4
E	7
R	14
G	33,476
A	-1
E	-7
V	-18
O	17
R	88
B	31,916
S	-5
L	2
H	-8
T	-6

(1) $6 + (4 - 7)$

(2) $9 + (^-2 - 8)$

(3) $^-12 + (^-1 + 5)$

(4) $^-3 - (3 - 10)$

(5) $(^-2 + 15) - ^-4$

(6) $(^-5 - ^-1) + ^-8$

(7) $(9 - 16) + 2$

(8) $(4 + ^-7) - ^-12$

(9) $(^-3 + 8) + (10 - 1)$

(10) $(6 - 7) + (^-11 + ^-2)$

(11) $(5 - ^-4) + (^-5 - 4)$

(12) $(^-2 + ^-6) + (20 + ^-18)$

(13) $(^-7 - 1) - (3 + 7)$

(14) $(^-11 + 6) - (9 - 10)$

(15) $(6 + ^-8) - (^-3 - 4)$

(16) $(1 - ^-99) - (^-1 + 99)$

(17) A scuba diver was swimming at an elevation of $^-8$ meters. A shark was swimming at an elevation of $^-29$ meters. Find the difference between these two elevations.

(18) Gizmo had a balance of $100 in his checking account. One day he wrote checks for $33 and $20. He also made a deposit of $41. What was his new balance?

(19) WORLD RECORD: The greatest temperature change ever recorded in a single day occurred in Browning, Montana, in 1916. The temperature dropped from 44°F to $^-56$°F. What was the change in temperature?

(20) WORLD RECORD: The world's tallest mountain, if measured from base to peak, is Mauna Kea in Hawaii. The base has an elevation of $^-19,680$ feet. The peak has an elevation of 13,796 feet. How tall is Mauna Kea?

Problems - 3 marks each. { equation
                          answer
                          sentence }

1. The temperature starts at -25°C, drops 13°C, rises 3°C and rises 8°C.

2. A person starts with $350, earns $122, spends $115, earns $183 and spends $29.

3. Gloria is 52 kg. She gains 5 kg, loses 7 kg, gains 9 kg and loses 14 kg.

4. The temperature starts at 32°C, drops 8°, drops 3°, rises 9° and drops 12°.

5. A submarine starts at sea level, dives down 135 m, dives another 77 m, and rises 72 m.

6. A certain stock starts at 319 points, gains 55 points, drops 45 points, and drops 28 points.

7. An elevator starts on the 9th floor, descends 5 floors and ascends 9 floors.

8. A helium filled baloon is released, gains 53 m, drops 32 m, gains 47 m, and drops 38 m.

9. An airplane takes off, gains 955 m, gains another 273 m, drops 36 m and drops 49 m.

10. The temperature starts at 18°C, drops 4°C, rises 22°C, drops 6°C and gains 8°C.

Mixed Practice with Integer Word Problems

1. At the Goldy Mine the cage starts 8 m above ground level. It drops 153 m to let the workers off. How far below ground are the workers?

2. The temperature of oil stored in a tank at an oil well was ⁻8°C. The oil coming to the surface had a temperature of ⁺25°C. What was the difference in temperature?

3. The temperature in St. John's is ⁻13°C. The temperature in Moncton is ⁺8°C. What is the change in temperature in going from St. John's to Moncton?

4. The afternoon temperature in Killaloe is ⁻27°C. The temperature in Sarnia is ⁺3°C. What is the change in temperature in going from Sarnia to Killaloe?

5. The elevator in shaft #1 went down 72 m, up 51 m, down 17 m, and up 49 m. If it started 19 m below the ground, where would it be now?

6. A weather balloon rose to a height of 2330 m. As the air cooled, it sank 249 m. The sun rose and as the air warmed, the balloon rose 655 m. What is its final position?

7. An Explorer helicopter was surveying Crown land in the Yukon. From its base it flew west 59 km, then east 43 km, then west 62 km, and finally 82 km east.

 Was the helicopter east or west of the se?

b. How far away was it from the base?