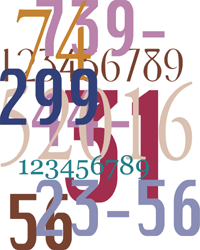
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**Integer Practice Problems**

1) With the help of her science teacher she is doing an experiment on the affect of

low temperatures on bacteria. She cools one sample of bacteria to a temperature

of and another to . What was the temperature difference in the

two experiments.

2) On Tuesday the mailman delivers 3 checks for $5 each and 2 bills for $2.75 each.

If you had a starting balance of $24, what is the ending balance in your account?

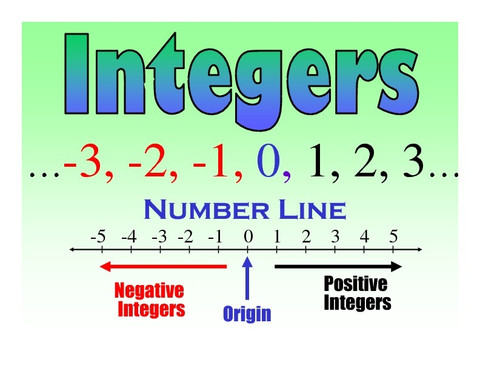
3) You owe $225 on your credit card. You make a $55 payment and then purchase

$87 worth of clothes at Macy’s. What is the integer that represents the balance?

owed on the credit card?

4) If it is 25F in Rantoul and it is 75in Honolulu, what is the temperature

difference between the two cities?



5) During the football game, Justin caught three passes. One was for a touchdown

and went 52 yards. The other was for a first down and was for 17 yards. The

other was on a screen pass that did not work so well and ended up a gain of 10

yards. What was the total yardage gained by Justin on the pass plays?

6) James plays in the backfield of the Medfield football team. Last week he ran four

plays from the halfback position. He made “gains” measured in yards of 3, 4, and

1 and 5. What were his average yards per gain? Round your answer to the

nearest tenth of a yard.

7) In golf, the average score a good player should be able to achieve is called “par.”

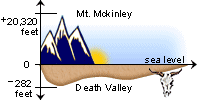
Par for a whole course is calculated by adding up the par scores for each hole.

Scores in golf are often expressed at some number either greater than or less than

par. Ms. Floop is having a pretty good day at the Dedham Country Club. Her score

so far after 15 holes is 3. If par for 15 holes is 63, what is her score?

8) Explain the picture below in words and with a math sentence.



9) It was a very freaky weather day. The temperature started out at 9C in the

morning and went to C at noon. It stayed at that temperature for six hours

and then rose 7C. How far below the freezing point (0C) was the temperature

at 6 p.m.?

10) Jason received $22 from a rebate in the mail. He deposited this check in his

checking account that already had a balance of $43. Jason had expenses to pay

during the week. He wrote a check for $26.50 at the grocery store, and a check

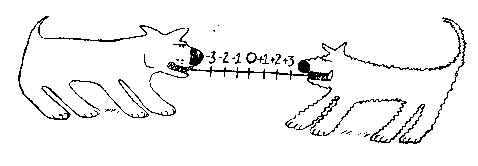
for $12 for a movie ticket. His cable TV bill came due and he wrote a check for

$48. How much was in his account after paying these bills?

11) A monkey sits on a tree limb that is 25 feet above the ground. He swings up 10

feet , climbs up 6 feet more then jumps down 13 feet. How far off the ground is

the monkey now?



12) A submarine dove 836 feet. It rose at a rate of 22 feet per minute. What was

the depth of the submarine after 12 minutes?

13) On a college test, students receive 4 points for every question answered

correctly and loses 7 points for every question answered incorrectly. On this

particular test, Terry answered 87 questions correctly and 46 questions

incorrectly. What is his score on the test?

14) Use the following 4 integers: 1, 4, 40, −25 to create equations you with

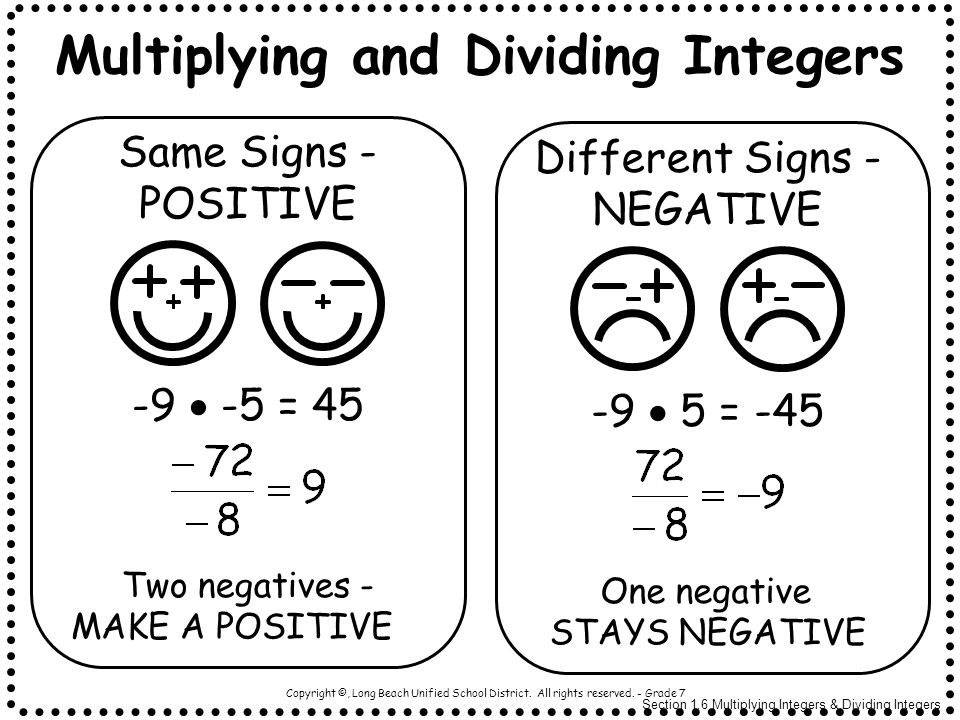
an answer of 34. You can use each integer only once.

15) Solve the following equations:

a) ? ( = 190

b) ? () =

c) ( ? + ) ( ? ) = 27



16) Give 5 integers whose product is less than zero and whose sum is

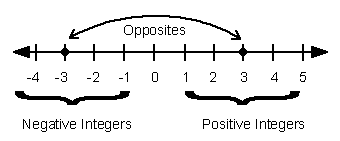
17) Give 3 integers whose sum is . Use 2 negative integers and 1 positive

integer.

18) When you have a long string of positive and negative integers to add up,

what is a good strategy to make things more efficient? Explain in words and

give a number example to prove what you are saying.



19) Why is taking away always like adding an opposite. Explain in words and give

a number example to prove what you are saying.

20) Is it true that if you add a negative integer to a positive integer, the sum is zero

or less? Is this true for all integers?

21) Is it true that if you subtract any 2 negative integers, the difference is always

zero? Explain your answer.

22) Is it true that if you add 2 opposite integers the sum is zero? Explain.

23) Is it true that if the mean (average) of a data set of integers is a negative integer,

then there must be more negative integers than positive integers in the data

set?