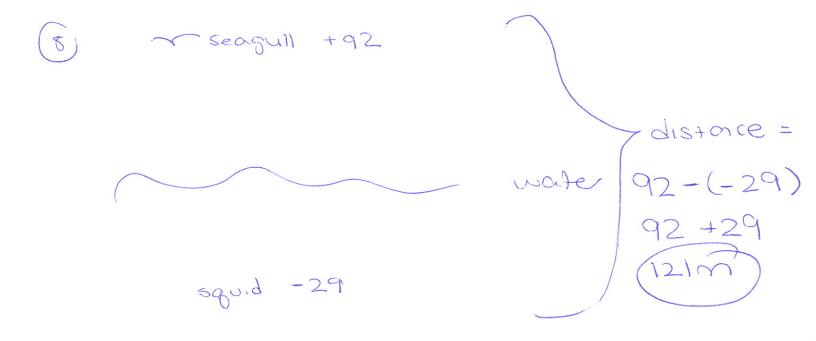
The Integers: Chapter Test 1

- Which operation will result in a negative answer?
 - a. -7 -12
 - **b.** -7×-2
 - -3 + -1
 - **d.** $-40 \div -2$
- Which of the following is NOT equivalent to $(-4)^2$?
 - **a.** -4×-4
 - **b.** $-1 \times 4 \times -1 \times 4$
- Given the years of birth and death of the following people, who lived the longest?
 - **a.** Plato: born in 428 B.C. and died in 348 B.C. 80 years **b.** Antoine: born in 83 B.C. and died in 30 B.C. 5 3 years
- 57 years
- **c.** Caesar: born in 101 B.C. and died in 44 B.C.
- **d.** Alexander the Great: born in 356 B.C. and died in 323 B.C. 33

- (-11) + (-12)
- **a.** $(-5-6) + (-2)^3 = ?$

- **b.** $7 \times -2 \div 14 = ?$ Order the following numbers in ascending order: -8 -7 +12 3 -4 -6 biggest

- Answer: -8 7 6 5 4 3 6 2
- Express the following statements using integers
 - **a.** Peter owes his father \$25.
 - **b.** 75 m above the sea level.
 - **c.** A well is dug 34 m into the ground.
- A Roman warrior was born in 15 B. C. and he died in 27 A. D. How old was this warrior when he died? 15+27=42 years



Total: 25 questions

La 17 correct

H blank

H wrong

: (17) (4 points) + (4)(-1 point) + (4)(-3 points) = 68 + (-4) + (-12) = 52 points

- 8. A seagull is flying 92 meters above the water. A giant squid is swimming 29 meters below sea level. What distance separates the two animals as the bird flies directly over the squid?
- Sarah and George were hiking in the mountains. George decides to have a nap after lunch. Sarah decides to continue hiking around the trails while George is sleeping. On her hiking trail, there were some up and downs. She starts with a 5 m drop from their lunch site. Then the trail went up 6 m, down 3 m, down 5 m, up 2 m and finally dropped down another 14 m. At this point, Sarah stops to have a rest and a drink of water. What is the difference in elevation between George and Sarah while she is taking her break?
- 10. Stephanie was playing a video trivia game. For every correct answer she received 4 points, for every wrong answer 3 points were taken away and for every answer she left blank she lost 1 point. Out of 25 questions, she answered 17 correctly and left 4 blank. What score did Stephanie receive at the end of the game?

Extension

- 11. Emily has a certain amount in her bank account at the beginning of the week. During this week she went shopping and spent \$146. She worked three evenings at a book store and received a payment of \$35 for each night she worked. Friday night she went out to the movies with her friends and spent \$24. Saturday night she went out to dinner and spent \$38. At the end of the week her bank account was overdrawn by \$18. How much money did Emily have in her bank account at the beginning of this week?
- 12. Find the missing numbers

a.
$$-6 \times \boxed{} -7 = 11$$

b.
$$= \div 2 - 16 = -23$$

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week.

X = amount in bonk account at the beginning of the week

$$X - 146 + (3)(35) - 24 - 38 = -18$$

 $X - 146 + 105 - 24 - 38 = -18$
 $X - 103 = -18$
 $X - 103 = -18$
 $X - 103 = -18$

Emily had \$85 at the boginning of the

(13)
$$Q = -6 \times 1 - 7 = 11$$
 $-7 = 11$
 $-6 \times 1 = 18$
 $-6 \times 1 = 18$

The Integers: Chapter Test 2

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The following data was collected about the temperatures during the last week of February. 1.

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	-
–20°C	−15°C	-19°C	-7°C	-12°C	-3°C	−15°C	

Which of the following statements in FALSE?

- Monday's temperature was the coldest
- **b.** Wednesday's temperature was colder than Friday's
- c. The difference between the coldest and warmest day of the week was 17°C
- d. The average temperature for Wednesday and Thursday was -26°C
- 2. Which one of the following statements is definitely true?
 - a. A negative multiplied a negative results in a negative
 - **b.** A positive added to a positive results in a negative
 - A positive multiplied by a negative results in a negative
 - d. A negative raised to the odd power results in a positive
- Order the following from least to greatest

a.
$$-3 \times -2 + 8 \div -4 \times -2 = ?$$

a.
$$-1, 2, -3, 5, -7, 11$$
b. $1, -3, -7$

Calculate

a. $-3 \times -2 + 8 \div -4 \times -2 = ?$
b. $-3^2 \div -9 + (5 - 10)^2 = ?$
c. $-7, -3, -1, 2, 5, 11$
d. $7, 5, -3, 2, -1$
e. $-3^2 \div -9 + (5 - 10)^2 = ?$
f. $-3^2 \div -9 + (5 - 10)^2 = ?$

- A Greek mathematician was born in 17 B. C. and died in 26 A. D. How old was the mathematician when she died? 17 + 26 > 43 years old
- Emma was doing a project on the change in temperature during the second week of March. Here is the data she collected:

-	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
-	-4°C	−3°C	+7°C	+8°C	-5°C	−1°C	0°C

She calculated the average and the range (the difference between the highest and the lowest temperature) to present it to her class. Help Emma with her calculations.

$$\frac{-4 + -3 + 7 + 8 + -5 + -1 + 0}{7} = \frac{2}{7} = 0.29$$

Ronge =
$$\frac{1}{8} - (-5)$$

= $8 + 5$
= 13° C

$$9)$$
 Range = $40 - (-52)$
= $40 + 52$
= 92°

the balance is -\$10.

$$\begin{array}{c} (9) & -3500 + 2000 - 45 \\ = -195 \end{array}$$

She has a balance of \$1-195.

The sub, is at 130m below sea tevel after 20 minutes.

(i)
$$(4)(0) + (3)(-1) + (1)(-2) + (4)(1) + 3(2)$$

= $0 + (-3) + (-2) + 4 + 6$

His had score was 5 above Par.

$$(6)(-12) + (4)(4) + (3)(-6) + (2)(5) + (8)(0)$$

$$=\frac{-64}{20}=-3.2^{\circ}c$$

The average temp.

- 7. The hottest and coldest temperatures in Canada in 2012 were recorded as follows, +40°C and -52°C. What is the range (the difference between the highest and the lowest temperature) between these temperatures?
- 8. Simon has a balance of -\$30 in his bank account. He receives 4 checks for \$12 each and has 2 bills to pay that are \$14 each. What is Simon's account balance after cashing in the checks and paying the bills?
- 9. Lisa owes \$350 on her credit card. She makes a \$200 payment and buys a \$45 sweater on the same day. What is her credit card balance at the end of that day?
- **10.** A submarine was 250 m below sea level. It started rising at a rate of 6 m per minute. What is the submarine's location, relative to the sea level, after 20 minutes?

Extension

11. In golf, "par" is the standard score for a hole. The golfer's score is determined according to the number of strokes played above or below par. The following table represents the scores given to a golfer:

Name of score	Numerical value of score			
Par	0			
Birdie	-1			
Eagle	-2			
Bogey	+1			
Double bogey	+2			

During a tournament a golfer had 7 pars, 3 birdies, 1 eagle, 4 bogeys and 3 double bogeys. Relative to par, what was the final score for this golfer?

12. For twenty days Susan was recording the temperature every day at 5 pm. She noticed that some temperatures were repeated over this period. Six times the temperature was -12°C, four times it was +4°C, three times it was -6°C and twice the temperature was 5°C. The rest of the days it was 0°C. What was the average temperature during those twenty days at 5 pm? Recall that to calculate the average you have add up all of the temperatures and then divide the result by the number of days.

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