LESSON 1.7

Multiplying *and* Dividing Integers

Review Vocabulary
mean, p. 39

BEFORE	*Now*	WHY?
You multiplied and divided decimals.	You'll multiply and divide integers.	So you can find the position of a submarine, as in Ex. 27.

pos ÷ × pos → pos

neg ÷ × neg → pos

pos ÷ × neg → neg

80 -5 -40 -15

$C = .5(F-32)$

LESSON 1.7

Name _____ Date _____

Practice A

For use with pages 41–46

Tell whether the product or quotient is *positive* or *negative*. You do not need to find the product or quotient.

1. $-26(3)$
2. $-9(-12)$
3. $20(-11)$
4. $\frac{437}{-19}$
5. $\frac{-448}{-32}$
6. $-357 \div 21$

$-26 \cdot 3 \rightarrow$ neg

$20 \cdot -11 \rightarrow$ neg

$\frac{-448}{-32} \rightarrow$ pos

T
F

Find the product or quotient.

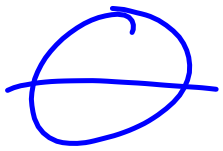
7. $-8(-13)$

8. $-10(17)$

9. $0(-59)$

$-8 \cdot -13$

104



10. $6(-15)$ **11.** $-12(5)$ **12.** $-9(-14)$

$6 \cdot -15$

-90

126

13. $75 \div (-3)$

$75 \div -3$

-25

14. $0 \div (-47)$

15. $39 \div (-13)$

$39 \div -13$

-3

16. $\frac{-126}{-9}$ **17.** $\frac{-84}{21}$ **18.** $\frac{120}{-24}$

$-81 \div 21$

-4

Simplify.

19. $9(-11)(-4)$ **20.** $-8(-12)(-3)$ **21.** $14(-20)(-7)$

$9 \cdot -11 \cdot -4$

$(-99 \cdot -4)$

396

$14 \cdot -20 \cdot -7$

$-280 \cdot -7$

1950

22. $120 \div (-4) \div (-5)$ **23.** $-240 \div (-16) \div 5$ **24.** $90 \div (-3) \div 3$

$-240 \div -16 \div 5$

$15 \div 5$

3

25. $-3(18) \div 6$ **26.** $-20(-15) \div 5$ **27.** $10(27) \div (-15)$

$-3 \cdot 18 \div 6$

$-54 \div 6$

-9

15
$\frac{6}{120}$

$10 \cdot 27 \div -15$

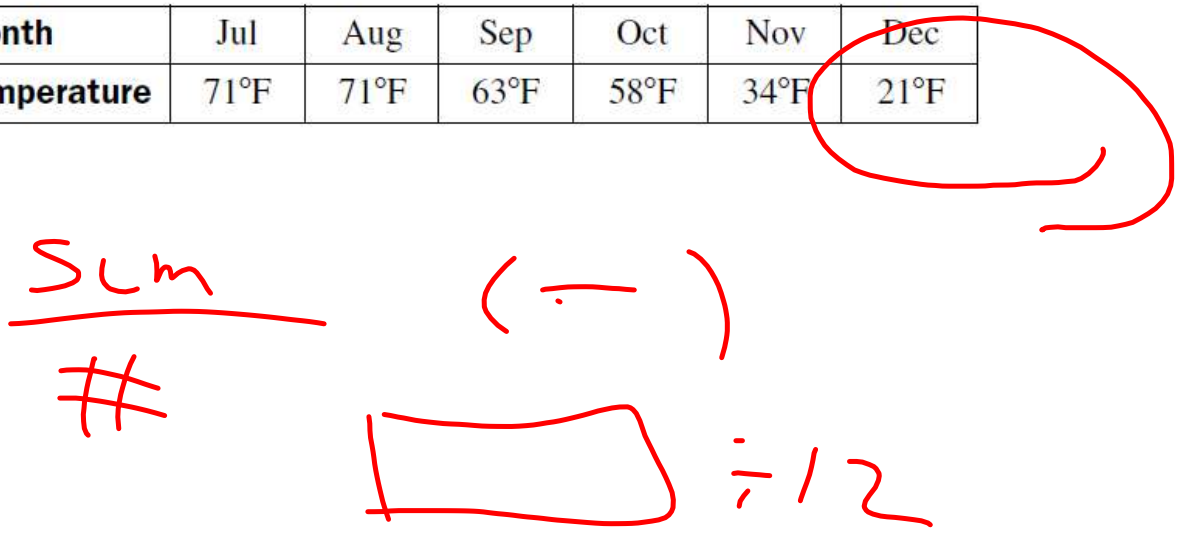
$270 \div -15$

-18

28. The table shows a town's average daily temperature each month for 1 year. Find the mean average daily temperature.

Month	Jan	Feb	Mar	Apr	May	Jun
Temperature	−15°F	−9°F	21°F	44°F	54°F	67°F

Month	Jul	Aug	Sep	Oct	Nov	Dec
Temperature	71°F	71°F	63°F	58°F	34°F	21°F



29. You have 25 shares of stock A, 10 shares of stock B, and 5 shares of stock C. In one day, the price per share changed by \$6 for stock A, −\$7 for stock B, and −\$9 for stock C. Find the total change in value of your stock.

Multiplying Integers

Words	Numbers	
The product of two integers with the same sign is positive.	$2(4) = 8$	$-2(-4) = 8$
The product of two integers with different signs is negative.	$2(-4) = -8$	$-2(4) = -8$
The product of any integer and 0 is 0.	$2(0) = 0$	$-2(0) = 0$

Dividing Integers

Words	Numbers	
The quotient of two integers with the same sign is positive.	$8 \div 4 = 2$	$-8 \div (-4) = 2$
The quotient of two integers with different signs is negative.	$-8 \div 4 = -2$	$8 \div (-4) = -2$
The quotient of 0 and any nonzero integer is 0.	$0 \div 4 = 0$	$0 \div (-4) = 0$