

8.4

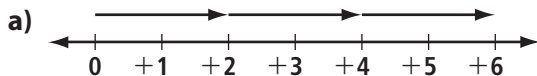
Dividing Integers*MathLinks 8, pages 306–311***Key Ideas Review***Choose from the following terms to complete #1 and #2.*

negative number line numerals positive sign some

- You can model _____ integer divisions on a _____.
- You can divide two integers by dividing the _____ and applying the _____ rules:
 - The quotient of two integers with the same sign is _____.
 - The quotient of two integers with different signs is _____.

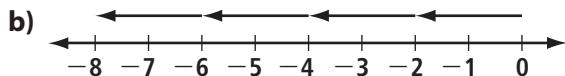
Practise and Apply

- Write two division statements that each diagram could represent.



c) $(-12) \div (-6) = \underline{\hspace{2cm}}$

d) $(-15) \div (+5) = \underline{\hspace{2cm}}$



- Find each quotient.

a) $(-22) \div (+2) = \underline{\hspace{2cm}}$

- Draw a number line to find each quotient.

a) $(-9) \div (+3) = \underline{\hspace{2cm}}$

b) $(+18) \div (-6) = \underline{\hspace{2cm}}$

b) $(+10) \div (+5) = \underline{\hspace{2cm}}$

Name: _____

Date: _____

6. Calculate and check.

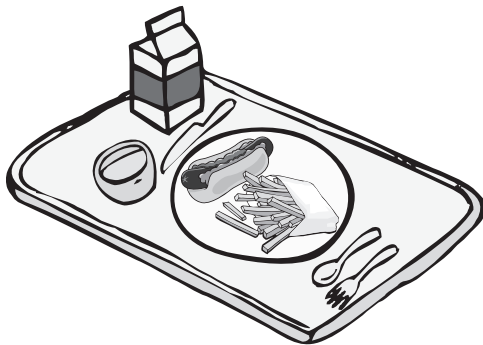
a) $(-64) \div (-4) =$ _____

b) $(-52) \div (+52) =$ _____

c) $(+100) \div (-5) =$ _____

7. The product of two integers is +286. What is the other integer if one of them is -13? Show your thinking.

8. Tasha bought the same lunch at the school cafeteria every day last week. She spent a total of \$15. How much did she spend each day? Show your thinking.



9. The new game system is out next week and Juan is short \$60 to purchase one. He may borrow the rest of the money equally from his Mom, Dad, older sister, and aunt.

a) How much will Juan have to pay back to each person?

b) If Juan repays each person \$5 a month, how many months will it take to pay off his debt?

10. Without calculating, circle the quotient with the highest value. Explain your reasoning.

$(-1972) \div (+35)$

$(-1972) \div (-35)$

$(+1972) \div (-35)$

11. A butterfly travels 6000 m in 30 min. How far does it travel per minute?

12. Danika is downloading a 1200 MB movie rental. The internet connection is running at 249 kB per second. How long will it take to get the movie? Show your thinking.
Hint: 1 MB = 1000 kB