

EXERCISE 1.1



1. Fill in the blanks.

(a) $(-11) \times \underline{\hspace{2cm}} \times (-11) = 1210$

(b) $(-13) + (12) \times \underline{\hspace{2cm}} = -13$

(c) $23 \div \underline{\hspace{2cm}} + (-2) = -3$

(d) $0 \div (-12) - (-14) = \underline{\hspace{2cm}}$

(e) $(-1) \times (-1) \times \underline{\hspace{2cm}} = 2$

(f) $(-17) \times \underline{\hspace{2cm}} \times 21 = 0$

2. Find the products of the following:

(a) 23×13

(b) $0 \times (-34)$

(c) $(-45) \times 0$

(d) $11 \times (-17)$

(e) $(-19) \times 14$

(f) $(-26) \times (-29)$

3. Simplify and find the absolute values of the following:

(a) $|35 \div (-7)|$

(b) $|(-152) \div (-19)|$

(c) $|(-144) \div 16|$

(d) $|(-20) - (-15) \div 3 - (-2)|$

(e) $|12 \times (-10) \div 6|$

(f) $|34 - 16 \div 8 - (-10)|$

4. Determine the quotient of each of the following:

(a) $18 \div (-6)$

(b) $(-33) \div 11$

(c) $(-45) \div (-15)$

(d) $34 \div 34$

(e) $0 \div 13$

(f) $123 \div (-3)$

(g) $(-62) \div (-31)$

(h) $95 \div (-19)$

5. An integer when divided by -3 gives 96 . Find the integer.

6. An integer when multiplied by -7 gives 119 . Find the integer.

7. State true or false.

(a) $(-9) + 0 = 0$ (b) $(-5) - 0 = 5$ (c) $(-3) - 0 = (-3)$

(d) $(-7) + 0 = 7$ (e) $(-1) + 1 = 0$ (f) $(-1) - 1 = (-2)$

8. Multiply the following:

(a) 13 and 19 (b) 16 and 0 (c) 0 and 24

(d) (-31) and 5 (e) (-12) and (-13) (f) 15 and (-16)

EXERCISE 1.2



1. Add $(-13) + 34$ using the commutative property.
2. Add $[23 + (-17)] + (-19)$ using the associative property.
3. Multiply (-14) and (-13) using the closure property.
4. Multiply $(-11) \times [23 + (-10)]$ using the distributive property.

5. Fill in the blanks.

(a) $(-34) \div 34 = \underline{\hspace{2cm}}$

(b) $\underline{\hspace{2cm}} \div 234 = (-1)$

(c) $\underline{\hspace{2cm}} \div 62 = 0$

(d) $\underline{\hspace{2cm}} + 52 = 52$

(e) $\underline{\hspace{2cm}} + 35 = 36$

(f) $\underline{\hspace{2cm}} + (-42) = (-43)$

6. State true or false.

(a) $0 + (-65) = 0$

(b) $(-78) + (-1) + (-4) = (-83)$

(c) $(-13) \times (-2) = 26$

(d) $256 \div (-16) = 16$

(e) $(-324) \div (-18) = 18$

(f) $[23 - (-11)] \div 11 = 4$

7. Calculate the following using suitable arrangements:

(a) $(-142) + (-58) + 200$

(b) $134 \times 11 + 134 \times 9$

(c) $(-50) \times 125 \times (-6) \times 8$

8. Determine the integer which when divided by (-1) gives (-34) .

9. Give one example of the distributive property of multiplication over subtraction.

10. Give one example where the associative property of subtraction does not hold good.