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## Lesson 5.2 Parts of an Expression

Identify each of the following as an expression or an equation.

| a | $b$ | c |
| :---: | :---: | :---: |
| I. $8+x$ Expression | $9+7=16$ Equation | $20 \times m=60$ Equation |
| 2. $b \div 5$ Expression | $32=8 \times 4 \quad$ Equation | $43 \times 7$ Expression |
| 3. 4 h Expression | $91-20=71$ Equation | $17+c$ Expression |
| 4. $36=9 \times 4$ Equation | $65-x$ Expression | $30 f$ Expression |

For each term below, identify the coefficient and the variable.


Translate each phrase into an expression or an equation.

IO. the sum of 3 and $b 3+b$
II. product of 8 and $d$ 8d
12. subtract 3 from 4 times $m \quad 4 m-3$
$\qquad$
13. 4 times the sum of 5 and $x \xrightarrow[4(5+x)]{ }$
$\qquad$
| 4. I 2 times $r$ minus $7 \quad 12 r-7$

8 times the sum of $f$ and $7 \quad 8(f+7)$
$p$ added to 4 equals $9 \ldots p+4=9$
$r$ minus 2 is $8 \quad r-2=8$
product of 10 and 2 10x2
the sum of 9 and $k \ldots 9+k$
$\qquad$

## Lesson 5.3 Writing Expressions

Translate each phrase into an algebraic expression or an equation.

I. subtract 8 from 3 times $d \quad$ take away 3 from $x \quad$| ba |
| :---: |
| $x$ |

2. $g$ minus 2 is $14 \quad g-2=14$
3. the sum of 7 and $z \underline{7+z}$ take away 3 from $\times \underline{x-3}$ $z$ is added to $8 \underline{8+z}$ 2 is subtracted from 4 times $d \underline{4 d-2}$
4. two-fifths of the sum of 6 and $s \quad 2 / 5(6+s)$

9 minus c $9-\mathrm{c}$
5. 10 minus $x \xrightarrow{10-x}$
subtract 9 from the product of 4 and $f \underline{4 f-9}$
6. 3 is subtracted from 5 times $a \quad 5 a-3$
7. $s$ is added to $9 \xrightarrow{9+s}$
$y$ minus 3 is $15 \underline{y-3=15}$
the sum of 8 and $t \xrightarrow{8+t}$
8. take away 9 from $h$ h-9
one-third of the sum of 7 and $k \ldots 1 / 3(7+k)$

Write each expression in words. ANSWERS MAY VARY
9. $9 \div x \quad$ The quotient of 9 and $x$
10. $3 \times g=27 \quad$ The product of 3 and $g$ is 27
II. $6 \times m-4$ The product of 6 and $m$ subtracted by 4
12. $\frac{1}{2} \times b+9=11 \quad 1 / 2$ of $b$ plus $9=11$
13. $14 \div p \quad$ The quotient of 14 and $p$
14. $6 \times b=42 \quad$ The product of 6 and $b$ is 42
15. $9 \times d-10 \quad 10$ subtracted from the product of 9 and $d$
16. $\frac{1}{4} \times t+8=16 \quad 1 / 4$ times $t$ added by 8 is 16

