

Simplify

5) $(a + b)^0$

6) $a^0 + b^0$

7) $3x^0y$

8) $10(mn)^0$

11) $-\left(\frac{1}{5}\right)^0$

12) $2a^0 + (2a)^0 + 2^0a$

17. $\frac{9a^{11}}{a^3} =$

18. $\frac{(3xy)(4x^2y)}{-6xy^2} =$

19. $\frac{22y^5z^8}{2yz^7} =$

20. $\frac{b^{14}c^9}{b^5c^4} =$

17. $(x^3y^3)^3 =$

18. $(5xy^3)(-5xy^2) =$

19. $(-3x^2y^3)^2 =$

20. $(8xy)^2 =$

21) $(5x^2y^4)^2$

22) $(4x^2)^2$

23) $(7x)^4$

24) $(7mn^2)^3$

Problem Solving - Draw a model and solve

At the start of the day, Jennifer and Maria have the same amount of money. Maria spends \$30, and Jennifer earns an additional \$25 by working. At the end of the day, how much more money does Jennifer have than Maria?

Fred is half as old as Sam. Sally is three times older than Fred. Jack is 12 years older than Sam. If Sally is 10 year old, how old are Fred, Sam, and Jack.