1 $2^9 - 2^8$

a) 2^1

b) 2^{17}

c) 2^8

2 $\dfrac{\sqrt{8}+\sqrt{8}}{4}$

a) 4

b) 2

c) $\sqrt{2}$

3 $\sqrt[4]{5x-4} = 2$

a) 3

b) 4

c) 5

4 $\dfrac{2^{50}}{2} = ?$

a) 2^{25}

b) 2^{49}

c) 2^{51}

5 $7 = \sqrt{\dfrac{x+7}{7}}$

a) 343

b) 340

c) 336

6 $\dfrac{9^3+9^2-9^1}{9}$

a) 90

b) 81

c) 89

7 $\dfrac{\sqrt{3}+\sqrt{3}+\sqrt{3}}{\sqrt{3}\times\sqrt{3}\times\sqrt{3}} = ?$

a) $\sqrt{3}$

b) 3

c) 1

8 $2^x + 2^x = 32$

a) 2^5

b) 2^4

c) 2^3

9 $4^{15} + 8^{10} = 2^x$

$x = ?$

10 $3^{x-1} + 3^{x+1} = 810$

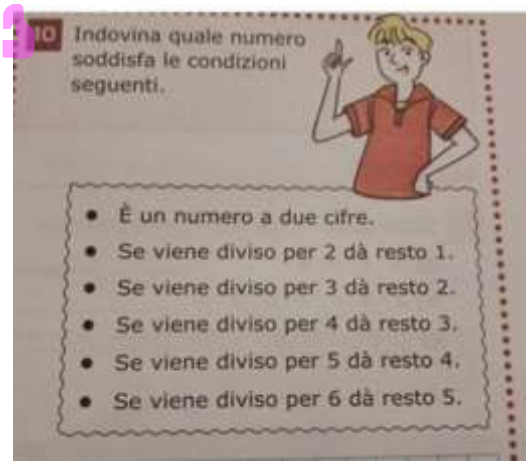
11 $(8)^a \times (4)^{2a} = 128$

12 $8^{17} + 8^{17} = ?$

A.) 8^{34} C.) 4^{68}

B.) 16^{17} D.) 2^{52}

13



14

$$\frac{2^x + 4^x}{2^x} = 5$$

15

$$24^2 + 7^x = 25^2$$

a) 3

b) 2

16

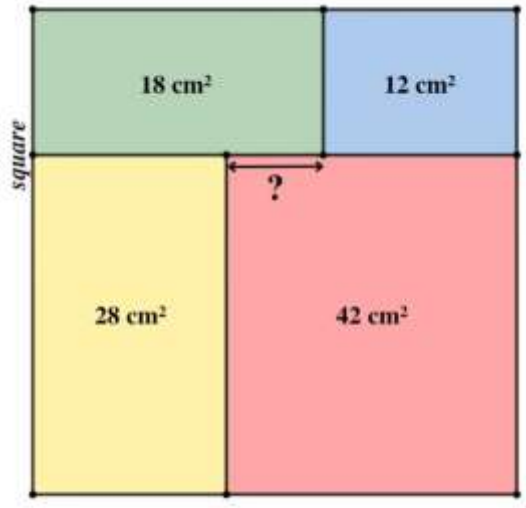
$$A = \cfrac{\cfrac{1}{2}}{\cfrac{\cfrac{2+2}{\cfrac{2+2+2}{\cfrac{2+2+2}{\cfrac{2+2}{\cfrac{2}{1}}}}}}} = ?$$

17

Solve for n ?

$$\sqrt[n]{\frac{9^9 + 9^9 + 9^9}{3^5 \times 3^5 \times 3^5}} = 3$$

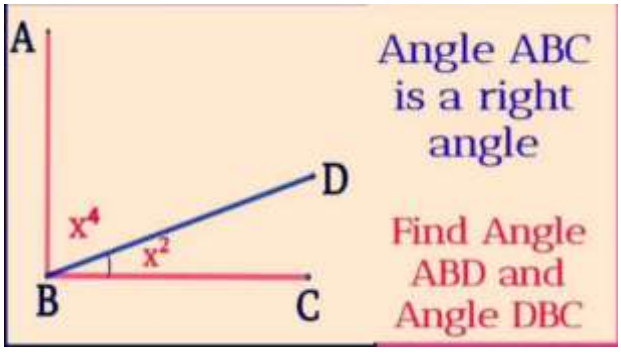
18



19

$$\frac{2^{98} + 2^{100} - 2^{102}}{2^{99} - 2^{100} + 2^{101}}$$

20



What is the value of $\frac{a^2}{b^2}$?

21

