1-

Find the missing number to complete each sum.

(a)

$9+8-5=2\times(\ )$

solve:

$9+8-5=2\times(\ )$

$9+8-5=2\times(n)$

$17-5=2n$

$12=2n$

$2n=12$

$n=\frac{12}{2}$

$n=6$

(b)

$3\times9-14=24-(\ )$

$3\times9-14=24-(\ )$

$3\times9-14=24-(11)$

$27-14=24-(11)$

$13=24-(11)$

$13+11=24$

$\therefore 24=24$

so the missing number is (11)

©

$15 \div 3 \times 12 = 41 + (\ )$

$15 \div 3 \times 12 = 41 + (\ )$

$5 \times 12 = 41 + u$

$60 = 41 + u$

$60 - 41 = u$

$u = 19$

So the missing number is 19

$15 \div 3 \times 12 = 41 + 19$

(d)

$24 \div 4 + 5 = 66 \div (\ )$

$24 \div 4 + 5 = 66 \div (\ )$

$24 \div 4 + 5 = 66 \div (u)$

$6 + 5 = 66 \div (u)$

$11 = 66 \div (u)$

$u = \frac{66}{11}$

$u = 6$ so the missing number is 6

$24 \div 4 + 5 = 66 \div (6)$

(e)

$8x6-13+3=7x6-(\ )$

$8x6-13+3=7x6-(\ )$

$48-13+3=42-(u)$

$35+3=42-(u)$

$38=42-u$

$u=42+38$

$u=4$ so the missing number is 4

$8x6-13+3=7x6-4$

Find the missing terms.

(a)

121, 11, 81, 9, ___, 7

121, 11, 81, 9, 49, 7

(11^2), $(9)^2$ $(7)^2$

(b)

100, 50, 25, ___, 6.25

100, 50, 25, 12.5, 6.25

~~50~~ ÷2 ÷2 ÷2 ÷2

(c)

4, 9, 64, 125, 1296 ___

4, 9, 64, 125, 1296 16,807

$(2)^2, (3)^2, (8)^3, (5)^3, (6)^4$ $(7)^5$

(d)

2, 5, 12, 24, 48 ___

Day:

2, 5, 12, 24, 48, 96

(2×2+1), (5×2+2), (12×2), (24×2), (48×2)

⑤

44, 22, 66, 33, 132, ___

44, 22, 66, 33, 132, 66

÷2 ×3 ÷2 ×4 ÷2

①

2+7=27

4+4=24

5+9=42

6+0=?

(a+b)×3

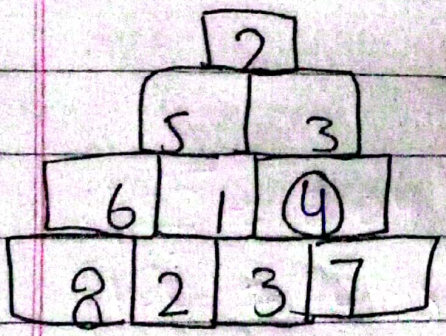
2+7=27 → (2+7)×3=27

4+4=24 → (4+4)×3=8×3=24

5+9=42 → (5+9)×3=14×3=42

6+0=? → (6+0)×3=6×3=18

②



8-2=6 6-1=5

3-2=1 4-1=3

7-3=4 5-3=2

2	6	18
4	20	100
?	21	147

in first column:

2, 4, ?

$2 \times 2 = 4$

$4 \times 2 = 8$

so 2, 4, 8 (8) is missing number.

6, 20, 21

$6 \times 3 + 2 = 20$

$20 + 1 = 21$

18, 100, 147

$18 \times 5 + 10 = 100$

$100 + 47 = 147$

How many prime numbers are b/w each of the following pairs of numbers.

① $\sqrt{3}$ and $\sqrt{120}$

$\sqrt{3}$ and $\sqrt{120}$

Lets solve $\sqrt{3} = 1.73$

$\sqrt{120} = 10.95$

so prime numbers between 1.73 to 10.95 is 2, 3, 5, and 7 (4) prime numbers

⑤

$\sqrt[4]{10}$ and $\sqrt[2]{410}$

Date

Day

$\sqrt{10}$ and $\sqrt{410}$

$\sqrt{10} = 3.16$

$\sqrt{410} = 20.25$

So the prime numbers between 3.16 to 20.25 is 5, 7, 11, 13, 17, and 19 (6) prime numbers.

(c)

$\sqrt[3]{10}$ and $\sqrt[3]{999}$

$\sqrt[3]{10}$ and $\sqrt[3]{999}$

$\sqrt[3]{10} = 2.15$

$\sqrt[3]{999} = 9.97$

So the prime numbers between 2.15 to 9.97 is 3, 5, 7. (3) prime numbers

(d)

$\sqrt[3]{28}$ and $\sqrt{120}$

$\sqrt[3]{28} = 3.04$

$\sqrt{120} = 10.95$

so the prime numbers between 3.04 to 10.95 is 5 and 7 (2) prime numbers.

Day: Date:

$\sqrt[2]{8}$ and $\sqrt{400}$

$\sqrt[2]{8}$ and $\sqrt{400}$

$\sqrt[2]{8} = 2.83$

$\sqrt{400} = 20$

So the prime numbers between 2.83 to 20 is 3, 5, 7, 11, 13, 17, 19

Prime numbers (7)