

$$(1)(1) (1000 - 199 \times 4) \div 17$$

$$= (1000 - 796) \div 17$$

$$= 204 \div 17$$

$$= \underline{\underline{12}}$$

$$\begin{array}{r} 12 \\ 17 \overline{) 204} \\ \underline{17} \\ 34 \\ \underline{34} \\ 0 \end{array}$$

$$(2) \frac{1}{2} + \frac{1}{3} - \frac{1}{6}$$

$$= \frac{3}{6} + \frac{2}{6} - \frac{1}{6}$$

$$= \frac{4}{6}$$

$$= \underline{\underline{\frac{2}{3}}}$$

$$(3) \left(1\frac{1}{4} - \frac{1}{2}\right) \times \left(\frac{1}{4} + \frac{3}{8}\right) \div \left(\frac{17}{32} - \frac{1}{16}\right)$$

$$= \left(\frac{5}{4} - \frac{2}{4}\right) \times \left(\frac{2}{8} + \frac{3}{8}\right) \div \left(\frac{17}{32} - \frac{2}{32}\right)$$

$$= \frac{3}{4} \times \frac{5}{8} \times \frac{32}{15} = \underline{\underline{1}}$$

(4)

$$1017 \times 19 + \underbrace{46}_{23 \times 2} \times 33 - 17 \times 19 + 23 \times 34$$

$$= 19 \times (1017 - 17) + 23 \times (2 \times 33 + 34)$$

$$= 19000 + 23 \times 100$$

$$= 19000 + 2300$$

$$= \underline{\underline{21300}}$$

$$(2)^{(1)} \{(50 + \square) \div 2 - 8\} \times 3 = 54$$

$$\{ \quad \} = 54 \div 3 = 18$$

$$(\quad) \div 2 = 18 + 8 = 26$$

$$(\quad) = 26 \times 2 = 52$$

$$50 + \square = 52 \quad \square = 52 - 50 = 2$$

A. 2

(2)

$$600 \times \square : 500 \times 0.2 = 12 : 5$$

$$600 \times \square = 500 \times 0.2 \times 12 \div 5 \\ = 240$$

$$\square = 240 \div 600 = 0.4$$

A 4 (割)

(3)

分子は奇数 分母は前の数 $\times 2$

$$\begin{array}{r} 2 \overline{) 128} \\ 2 \overline{) 64} \\ 2 \overline{) 32} \\ 2 \overline{) 16} \\ 2 \overline{) 8} \\ 2 \overline{) 4} \\ 2 \end{array}$$

$$128 = 1 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2$$

A 8 (番目)

(4)

$$\frac{1}{3} = \frac{20}{60}$$

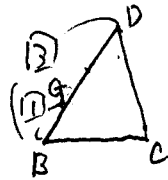
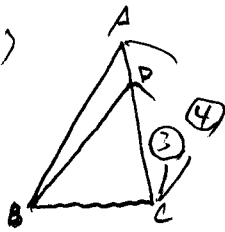
$$\frac{1}{2} = \frac{30}{60}$$

$$60 = 2 \times 2 \times 3 \times 5$$

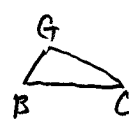
20~30 の数で 2, 3, 5 の倍数でないのは 23, 29

A. 23, 29

[3] (1)



$$= 1 \times \frac{3}{4} = \frac{3}{4}$$



$$= \frac{3}{4} \times \frac{1}{3} = \frac{1}{4}$$

A. $\frac{1}{4}$ (倍)

(2) 4~8の偶数は 4, 6, 8.

$$\begin{array}{r} A + 1 + \square \\ + \\ \square \\ + 3 \end{array} \rightarrow \text{差が2}$$

A=4のとき

$$\begin{array}{r} \boxed{4} + 1 + \boxed{7} = 12 \\ + \\ \boxed{5} \\ + 2 \\ + 3 + \square + \boxed{2} \\ \hline 12 \end{array}$$

$$\begin{array}{r} \boxed{4} + 1 + \boxed{8} = 13 \\ + \\ \boxed{6} \\ + 2 \\ + 3 + \square + \boxed{2} \\ \hline 13 \end{array}$$

A=6のとき

$$\begin{array}{r} \boxed{6} + 1 + \boxed{2} \\ + \\ \boxed{4} \\ + 2 \\ + 3 + \square + \square \end{array}$$

$$\begin{array}{r} \boxed{6} + 1 + 7 = 14 \\ + \\ \boxed{5} \\ + 2 \\ + 3 + \square + \boxed{2} \end{array}$$

A=8のとき

$$\begin{array}{r} \boxed{8} + 1 + \boxed{6} = 15 \\ + \\ \boxed{4} \\ + 2 \\ + 3 + \boxed{5} + \boxed{7} = 15 \\ \hline 15 \end{array}$$

Good.

A. 8 5

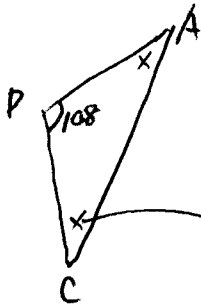
[4]

(1) 正五角形の1つの外角 = $360 \div 5 = 72$

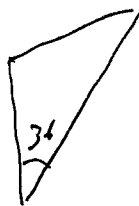
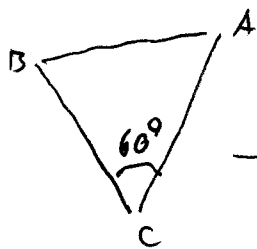
内角 = $180 - 72 = 108$

A 108度

(2)



$$x = (180 - 108) \div 2 = 36^\circ$$



$$= 24$$

A. 24度

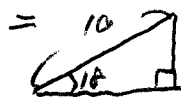
[5] (1) $10 \times 10 \times 3.14 \times \frac{54 + 18}{360} = 10 \times 10 \times 3.14 \times \frac{1}{5} = 62.8$

A. 62.8 cm²

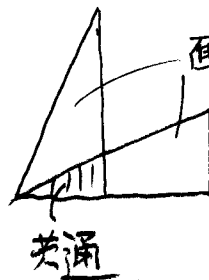
(2) $180 - (72 + 90) = 18^\circ$

A 18度

(3)

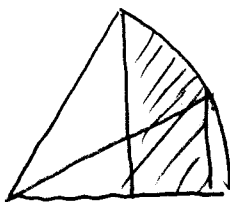


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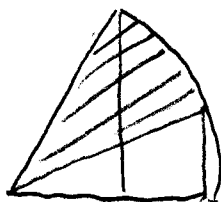


面積が等しい

共通



=



$$10 \times 10 \times 3.14 \times \frac{54}{360} = 10 \times 10 \times 3.14 \times \frac{3}{20} = 47.1$$

A. 47.1 cm²

{6} (1) $40m \div 80m/\text{分} = \frac{1}{2} (\text{分}) = 30\text{秒} \dots \text{つきあ}$

$30 - 6 = 24$

A 24秒

(2)

はしあ つきあ
時間 24 : 30
速さ 30 : 24 = ⑤ : ④ } 逆比

④ = $80m/\text{分}$

⑤ = $80 \div 4 = 20$

A. 分速 20m

(3) つきあが 30秒でつく

はしあは 動く歩道のEで歩く $20 + 80 = 100 \dots \text{分速 } 100m$

歩くのをやめると 分速 20m

40mを 30秒でつくには


つぎの計算 $(\frac{1}{2}\text{分})$

$(40 - 20 \times \frac{1}{2}) \div (100 - 20) = \frac{3}{8} \text{分} \dots \text{分速 } 100m$

$\frac{1}{2} - \frac{3}{8} = \frac{1}{8} \text{分} = 60\text{秒} \times \frac{1}{8} = 7\frac{1}{2}$

A. 7.5秒間

{7} (1) 1辺5枚 全部で $1 + 3 + 5 + 7 + 9 = (1 + 9) \times 5 \div 2 = 25\text{枚}$

黒牛  $= (5 - 1) \times 3 = 12\text{枚}$

白牛 $25 - 12 = 13$

A 13枚

(2) $25 + 11 = 36$

A. 36枚

別解 $1 + 3 + 5 + 7 + 9 + 11 = (1 + 11) \times 6 \div 2 = 36$

$$(3) \quad \begin{array}{cccc} 6 & 7 & 8 & 9 \\ 36+13+15+17, \\ \underline{\quad 49 \quad} & \underline{\quad 64 \quad} & \underline{\quad 81 \quad} \end{array}$$

A 9枚

(別解: (1)(2)より 1辺×1辺 = 全枚数 より $81 = 9 \times 9$ A 9枚)

$$(4) \quad 30 = \triangle \rightarrow 30 \div 3 = 10 \rightarrow 10 + 1 = 11 \text{ (黒の1辺)}$$

$$81 + 19 + 21 = 121 \dots \text{全枚数} \quad 121 - 30 = 91$$

A 91枚

(別: $11 \times 11 = 121 \dots \text{全枚数}$)

$$[8] (1) \text{三角柱} = 12 \times 12 \times \frac{1}{2} \times 10 = 720$$

A. 720 cm³

$$(2) \quad \text{面A} = \begin{array}{|c|c|c|c|} \hline & & & \\ \hline & & & \\ \hline & & & \\ \hline & & & \\ \hline \end{array} \quad 4 \times 4 = 16 \quad = 16 \times 6 = 96 \text{ cm}^2$$

$$720 \div 96 = 7.5$$

A. 7.5 cm

$$(3) \quad \text{一番下の段} = 4 \times 10 \times 12 = 480 \text{ cm}^3$$

$$720 - 480 = 240 \text{ cm}^3 \dots = \text{段目}$$

$$8 \times 10 = 80 \text{ cm}^2 \dots = \text{段目の底面積}$$

$$240 \div 80 = 3 \text{ cm} \dots = \text{段目の高さ}$$

$$\begin{array}{cc} 1\text{段} & 2\text{段} \\ 4\text{ cm} & + 3\text{ cm} = 7 \end{array}$$

A. 7 cm