

1. (1) 2 (2) $-\frac{29}{12}$

2. (1) (海面より) 422m 低い (2) 4 (3) $-\frac{4}{9}$

(4) ① 7 ② -6, 7, 0 ③ -6, -0.04, $-\frac{1}{2}$

④ 0 ⑤ -6

(5) ① $-0.3 < -0.03$ ② $-\frac{2}{3} < -0.66 < -\frac{3}{5}$ (6) ア

3. (1) $(-1) + (+5) + (-3)$

(2) ① -9, +5, +4, -2 ② 4, +5, -3, -1

4. (1) $2^2 \times 3^3 \times 7$ (2) 21

(3) 1, 2, 3, 5, 6, 10, 15, 25, 30, 50, 75, 150 (12)

5. (1) -15 (2) -27 (3) -5 (4) -7.2 (5) 10

6. (1) -63 (2) 17 (3) 0.64 (4) 243 (5) $\frac{3}{4}$

7. (1) -2 (2) 11 (3) 10 (4) 8

8. $-103 \times (-23) = (-100-3) \times (-23)$

$= -100 \times (-23) - 3 \times (-23)$

$= 2300 + 69$

$= 2369$

9. (1) 0 (2) C

10. (1) 10 cm (2) F (3) 22 cm

(4) $147 + \{(+2) + (-6) + (-8) + (+13) + (-9) + (-4)\} \div 6$
 $= 147 + (-12) \div 6 \quad \triangleq 147 + (+2 - 6 - 8 + 13 - 9 - 4) \div 6 \quad \text{でOK}$
 $= 147 + (-2)$
 $= 145$
A. 145 cm

(別解) $\left(\begin{array}{l} +2 - 6 - 8 + 13 - 9 - 4 = -12 \\ -12 \div 6 = -2 \\ 147 - 2 = 145 \end{array} \right)$

11. (1) 10 個 (2) 23 個

(2) (大1, 小3), (大3, 小5), (大4, 小2), (大6, 小4)

12. (1) 北極 -44.7°C , 南極 -66.7°C , 南極区の方が 22°C 低い

(2) 北極の月平均気温差 $= 16.5 - (-44.7) = 61.2^{\circ}\text{C}$

南極の月平均気温差 $= -31.2 - (-66.7) = 35.5^{\circ}\text{C}$

よって北極の方が寒暖差が大きい。

13. ① $2ab$ ② $-3x^3y^2$ ③ $\frac{m+1}{n}$ ④ $-\frac{1}{a} + 0.1b$

14. (1) $10x + 700$ (円) (2) $\frac{1}{2}\pi x^2 \text{ cm}^2$ (3) $\frac{ab}{100}$ 円

15. (1) -8 (2) -9

$$1. (1) \underline{2} \quad (2) \underline{-\frac{29}{12}}$$

$$2. (1) \underline{(\text{海面より}) 422\text{m低い}} \quad (2) \underline{4} \quad (3) \underline{\frac{4}{9}}$$

$$(4) \textcircled{1} \underline{7} \quad \textcircled{2} \underline{-6, 7, 0} \quad \textcircled{3} \underline{-6, -0.04, -\frac{1}{2}}$$

$$\textcircled{4} \underline{0} \quad \textcircled{5} \underline{-6}$$

$$(5) \textcircled{1} \underline{-0.3 < -0.03} \quad \textcircled{2} \underline{-\frac{2}{3} < -0.66 < -\frac{3}{5}} \quad (6) \underline{\text{ア}}$$

$$3. (1) \underline{(-1) + (+5) + (-3)}$$

$$(2) \textcircled{1} \underline{-9, +5, +4, -2} \quad \textcircled{2} \underline{4, +5, -3, -1}$$

$$4. (1) \underline{2^2 \times 3^3 \times 7} \quad (2) \underline{21}$$

$$(3) \underline{1, 2, 3, 5, 6, 10, 15, 25, 30, 50, 75, 150} \quad (12\text{コ})$$

$$5. (1) \underline{-15} \quad (2) \underline{-27} \quad (3) \underline{-5} \quad (4) \underline{-7.2} \quad (5) \underline{10}$$

$$6. (1) \underline{-63} \quad (2) \underline{17} \quad (3) \underline{0.64} \quad (4) \underline{243} \quad (5) \underline{\frac{3}{4}}$$

$$7. (1) \underline{-2} \quad (2) \underline{11} \quad (3) \underline{10} \quad (4) \underline{8}$$

$$\begin{aligned} 8. \quad & -103 \times (-23) = (-100-3) \times (-23) \quad \text{「」}\Delta \\ & = -100 \times (-23) - 3 \times (-23) \quad \text{「」}\Delta \\ & = 2300 + 69 \\ & = 2369 \quad \text{「」}\Delta \end{aligned}$$

9. (1) $\frac{0}{\times 2}$ (2) $\frac{c}{\times 2}$

10. (1) $\frac{10 \text{ cm}}{\times 2}$ (2) $\frac{F}{\times 2}$ (3) $\frac{22 \text{ cm}}{\times 2}$

(4) $147 + \{(+2) + (-6) + (-8) + (+13) + (-9) + (-4)\} \div 6 \quad \text{「A」}$
 $\times 4$
 $= 147 + (-12) \div 6 \quad \text{「A」} \quad \triangleq 147 + (+2 - 6 - 8 + 13 - 9 - 4) \div 6 \quad \text{でOK.}$
 $= 147 + (-2) \quad \text{「A」}$
 $= 145 \quad \text{「A」}$
A. 145 cm

(別解) $\begin{cases} +2 - 6 - 8 + 13 - 9 - 4 = -12 \quad \text{「A」} \\ -12 \div 6 = -2 \quad \text{「A」} \\ 147 - 2 = 145 \quad \text{「A」} \end{cases}$

11. (1) $\frac{10 \text{ 個}}{\times 2}$ (2) $\frac{23 \text{ 個}}{\times 2}$

→ 正解に△は1点

(2) $\frac{(大1, 小3), (大3, 小5), (大4, 小2), (大6, 小4)}{\times 4}$

12. (1) 北極 $\frac{-44.7^\circ\text{C}}{\times 2}$, 南極 $\frac{-66.7^\circ\text{C}}{\times 2}$, 南極区の方が $\frac{22^\circ\text{C}}{\times 2}$ 低い

(2) 北極の月平均気温差 $= 16.5 - (-44.7) = 61.2^\circ\text{C} \quad \text{「A」}$
 $\times 3$

南極の月平均気温差 $= -31.2 - (-66.7) = 35.5^\circ\text{C} \quad \text{「A」}$

よって北極の方が「寒暖差が」大きい. 「A」

13. ① $\frac{2ab}{\times 1}$ ② $\frac{-3x^3y^2}{\times 2}$ ③ $\frac{m+1}{\times 2}$ ④ $\frac{-\frac{1}{a} + 0.1b}{\times 2}$

14. (1) $\frac{10x + 700}{\times 2}$ (4) (2) $\frac{\frac{1}{2}\pi x^2 \text{ cm}^2}{\times 2}$ (3) $\frac{\frac{ab}{100} \text{ 円}}{\times 2}$

15. (1) $\frac{-8}{\times 2}$ (2) $\frac{-9}{\times 2}$