

1. 다음을 계산하여라.

$$-3 - 6 + 8$$

▶ 답 :

▷ 정답 : -1

해설

$$\begin{aligned} -3 - 6 + 8 &= (-3) - (+6) + (+8) \\ &= (-3) + (-6) + (+8) \\ &= \{(-3) + (-6)\} + (+8) \\ &= (-9) + (+8) = -1 \end{aligned}$$

2. -6보다 3만큼 작은 수를 a , -2보다 13만큼 큰 수를 b 라 할 때, $a-b$ 의 값을 구하여라.

▶ 답 :

▷ 정답 : -20

해설

$$a = (-6) - (+3) = (-6) + (-3) = -(6+3) = -9$$

$$b = (-2) + (+13) = +(13-2) = +11$$

$$\begin{aligned}\therefore a-b &= (-9) - (+11) \\ &= (-9) + (-11) \\ &= -(9+11) \\ &= -20\end{aligned}$$

3. 다음의 계산과정에서 사용된 곱셈의 계산 법칙 중 교환법칙이 사용된 것을 모두 골라라.

$$\begin{aligned} & (-4) \times (-3) \times (+3) \times (-2) \times (-5) \\ &= (-4) \times (-3) \times (-2) \times (+3) \times (-5) \\ &= (-4) \times \{(-3) \times (-2)\} \times (+3) \times (-5) \\ &= (-4) \times (+6) \times (+3) \times (-5) \\ &= (+6) \times (-4) \times (+3) \times (-5) \\ &= (+6) \times (-4) \times (-5) \times (+3) \\ &= (+6) \times \{(-4) \times (-5)\} \times (+3) \\ &= (+6) \times (+20) \times (+3) \\ &= 360 \end{aligned}$$

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해설

$$\begin{aligned} & (-4) \times (-3) \times (+3) \times (-2) \times (-5) \\ &= (-4) \times (-3) \times (-2) \times (+3) \times (-5) \\ &= (-4) \times \{(-3) \times (-2)\} \times (+3) \times (-5) \\ &= (-4) \times (+6) \times (+3) \times (-5) \\ &= (+6) \times (-4) \times (+3) \times (-5) \\ &= (+6) \times (-4) \times (-5) \times (+3) \\ &= (+6) \times \{(-4) \times (-5)\} \times (+3) \\ &= (+6) \times (+20) \times (+3) \\ &= 360 \end{aligned}$$

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4. $(-3) - (-7) + (+5) - (+8) + (+4)$ 를 계산하여라.

▶ 답 :

▷ 정답 : 5

해설

$$\begin{aligned} & (-3) - (-7) + (+5) - (+8) + (+4) \\ &= (-3) + (+7) + (+5) + (-8) + (+4) \\ &= \{(-3) + (-8)\} + \{(+7) + (+5) + (+4)\} \\ &= (-11) + (+16) = +(16 - 11) = 5 \end{aligned}$$

5. $-\frac{7}{6}$ 보다 -5 큰 수를 a , 3.2 보다 $-\frac{14}{5}$ 작은 수를 b 라 할 때, $a \times b$ 의 값을 구하여라.

▶ 답 :

▷ 정답 : -37

해설

$$a = -\frac{7}{6} + (-5) = -\frac{37}{6}$$

$$b = 3.2 - \left(-\frac{14}{5}\right) = \frac{16}{5} + \frac{14}{5} = \frac{30}{5} = 6$$

$$\therefore a \times b = -\frac{37}{6} \times 6 = -37$$