

毎年、入試最初の5問は以下のような計算問題で合計20点となっている。比較的やさしいので必ず解けるようにしておこう。

◎次の計算をなさい。

(1) $3 - 7$

(2) $2 - 8$

(3) $4 - 13$

(4) $5 - 11$

(5) $1 - 3$

(6) $8 - 22$

(7) $19 - 33$

(8) $27 - 51$

(9) $18 - 103$

(10) $66 - 213$

(11) $4 \div (-2) + (-3) \times (-4)$

(12) $-3 \times 5 - (-9) \div (-3)$

(13) $2 \times (-6) + (-12) \div 4$

(14) $-1 \times (-7) - (-6) \div (-2)$

(15) $5 \times (-4) - 10 \div 5$

(16) $7 \times (-2) + 15 \div (-3)$

(17) $3 \times (-4) - (-18) \div (-6)$

(18) $-2 \times (-2) + 20 \div (-4)$

(19) $-4 \times 2 - 16 \div 8$

(20) $-7 \times (-5) + 39 \div (-3)$

(21) $6 \div (-2) - 7 \times (-3)$

(22) $-12 \div (-3) + (-2) \times 5$

(23) $14 \div (-7) - (-3) \times (-4)$

(24) $-15 \div 3 - 2 \times (-3)$

(25) $-18 \div (-6) + 5 \times (-2)$

(26) $144 \div 12 - 3 \times 6$

(27) $-35 \div (-7) + 4 \times (-4)$

(28) $16 \div (-4) - 2 \times (-3)$

(29) $-32 \div (-8) - 5 \times 4$

(30) $8 \div (-2) - 2 \times (-5)$

(31) $(-2)^2 \times 3 + (-9) \div 3$

(32) $2 \times (-3)^2 + (-7) \times 5$

(33) $(-2)^3 \div 4 - (-6) \times 3$

(34) $(-3)^3 \div 3 + (-2) \times (-4)$

(35) $(-2)^3 \times 3 - (-36) \div 4$

(36) $\frac{1}{2} + \frac{5}{3} \div \left(-\frac{5}{2}\right)$

(37) $\frac{2}{3} - \frac{7}{5} \div \left(-\frac{7}{3}\right)$

(38) $\frac{3}{5} - \left(\frac{5}{2}\right) \div \left(\frac{5}{3}\right)$

$$(39) \frac{6}{7} + \frac{9}{3} \div \left(-\frac{9}{8}\right)$$

$$(40) \frac{4}{9} + \left(-\frac{3}{8}\right) \div \left(-\frac{3}{2}\right)$$

$$(41) \frac{3}{2} \div \left(-\frac{3}{5}\right) + \frac{4}{7}$$

$$(42) \frac{4}{5} \div \left(-\frac{4}{3}\right) + \frac{1}{4}$$

$$(43) \frac{7}{8} \div \left(-\frac{7}{5}\right) + \frac{2}{3}$$

$$(44) \frac{5}{9} \div \left(-\frac{5}{3}\right) + \frac{1}{5}$$

$$(45) -\frac{6}{7} \div \left(-\frac{6}{5}\right) - \frac{4}{5}$$

$$(46) 3(x+2y) - (x+3y)$$

$$(47) 2(2x-y) - 3(x-y)$$

$$(48) -5(x+2y) + 2(3x+4y)$$

$$(49) -3(-2x+3y) - (5x+2y)$$

$$(50) -(4x-3y) + 2(4x-5y)$$

$$(51) 5(x-y) - (3x-2y)$$

$$(52) 2(4x+6y) - 3(2x+3y)$$

$$(53) 3(2x-5y) + 5(x+2y)$$

$$(54) -4(x-2y) - 2(4x-y)$$

$$(55) 4(2x+3y) + 3(x-10y)$$

$$(56) \sqrt{27} - \sqrt{6} \times \sqrt{2}$$

$$(57) \sqrt{3}(1-\sqrt{2}) - \sqrt{12}$$

$$(58) \sqrt{32} - \sqrt{6} \times \sqrt{3}$$

$$(59) 3\sqrt{6} \div \sqrt{3} - \sqrt{18}$$

$$(60) \sqrt{50} - 3\sqrt{10} \div \sqrt{5}$$

$$(61) (3\sqrt{2}-2)(\sqrt{2}+3)$$

$$(62) \sqrt{162} - \sqrt{10} \times \sqrt{5}$$

$$(63) \sqrt{5}(3-\sqrt{3}) - \sqrt{20}$$

$$(64) 5\sqrt{14} \div \sqrt{2} - \sqrt{28}$$

$$(65) \sqrt{45} - 6\sqrt{15} \div \sqrt{3}$$

$$(66) (2\sqrt{5}+3)(\sqrt{5}-1)$$

20点確保プリント① 解答

- (1) $3-7 = -4$
 (2) $2-8 = -6$
 (3) $4-13 = -9$
 (4) $5-11 = -6$
 (5) $1-3 = -2$
 (6) $8-22 = -14$
 (7) $19-33 = -14$
 (8) $27-51 = -24$
 (9) $18-103 = -85$
 (10) $66-213 = -147$

- (11) $4 \div (-2) + (-3) \times (-4)$
 10
 (12) $-3 \times 5 - (-9) \div (-3)$
 -18
 (13) $2 \times (-6) + (-12) \div 4$
 -15
 (14) $-1 \times (-7) - (-6) \div (-2)$
 4
 (15) $5 \times (-4) - 10 \div 5$
 -22
 (16) $7 \times (-2) + 15 \div (-3)$
 -19
 (17) $3 \times (-4) - (-18) \div (-6)$
 -15
 (18) $-2 \times (-2) + 20 \div (-4)$
 -1
 (19) $-4 \times 2 - 16 \div 8$
 -10
 (20) $-7 \times (-5) + 39 \div (-3)$
 22
 (21) $6 \div (-2) - 7 \times (-3)$
 18
 (22) $-12 \div (-3) + (-2) \times 5$
 -6
 (23) $14 \div (-7) - (-3) \times (-4)$
 -14
 (24) $-15 \div 3 - 2 \times (-3)$
 1

- (25) $-18 \div (-6) + 5 \times (-2) = -7$
 (26) $144 \div 12 - 3 \times 6$
 -6
 (27) $-35 \div (-7) + 4 \times (-4)$
 -11
 (28) $16 \div (-4) - 2 \times (-3)$
 2
 (29) $-32 \div (-8) - 5 \times 4$
 -16
 (30) $8 \div (-2) - 2 \times (-5)$
 6
 (31) $(-2)^2 \times 3 + (-9) \div 3$
 9
 (32) $2 \times (-3)^2 + (-7) \times 5$
 -17
 (33) $(-2)^3 \div 4 - (-6) \times 3$
 16
 (34) $(-3)^3 \div 3 + (-2) \times (-4)$
 -1
 (35) $(-2)^3 \times 3 - (-36) \div 4$
 -15
 (36) $\frac{1}{2} + \frac{5}{3} \div \left(-\frac{5}{2}\right) = -\frac{1}{6}$
 (37) $\frac{2}{3} - \frac{7}{5} \div \left(-\frac{7}{3}\right) = \frac{19}{15}$
 (38) $\frac{3}{5} - \left(\frac{5}{2}\right) \div \left(\frac{5}{3}\right) = -\frac{9}{10}$

$$(39) \frac{6}{7} + \frac{9}{3} \div \left(-\frac{9}{8}\right) \quad -\frac{38}{21}$$

$$(40) \frac{4}{9} + \left(-\frac{3}{8}\right) \div \left(-\frac{3}{2}\right) \quad \frac{25}{36}$$

$$(40) \frac{3}{2} \div \left(-\frac{3}{5}\right) + \frac{4}{7} \quad -\frac{27}{14}$$

$$(41) \frac{4}{5} \div \left(-\frac{4}{3}\right) + \frac{1}{4} \quad -\frac{7}{20}$$

$$(42) \frac{7}{8} \div \left(-\frac{7}{5}\right) + \frac{2}{3} \quad \frac{1}{24}$$

$$(43) \frac{5}{9} \div \left(-\frac{5}{3}\right) + \frac{1}{5} \quad -\frac{2}{15}$$

$$(44) -\frac{6}{7} \div \left(-\frac{6}{5}\right) - \frac{4}{5} \quad -\frac{3}{35}$$

$$(45) 3(x+2y) - (x+3y)$$

$$2x+3y$$

$$(46) 2(2x-y) - 3(x-y)$$

$$x+y$$

$$(47) -5(x+2y) + 2(3x+4y)$$

$$x-2y$$

$$(48) -3(-2x+3y) - (5x+2y)$$

$$x-11y$$

$$(49) -(4x-3y) + 2(4x-5y)$$

$$4x-7y$$

$$(50) 5(x-y) - (3x-2y)$$

$$2x-3y$$

$$(51) 2(4x+6y) - 3(2x+3y)$$

$$(52) \frac{2x+3y}{3(2x-5y) + 5(x+2y)}$$

$$11x-5y$$

$$(53) -4(x-2y) - 2(4x-y)$$

$$-12x+10y$$

$$(54) \frac{4(2x+3y) + 3(x-10y)}{11x-18y}$$

$$11x-18y$$

$$(55) \sqrt{27} - \sqrt{6} \times \sqrt{2} \quad \sqrt{3}$$

$$(56) \sqrt{3}(1-\sqrt{2}) - \sqrt{12} \quad -\sqrt{3} - \sqrt{6}$$

$$(57) \sqrt{32} - \sqrt{6} \times \sqrt{3} \quad \sqrt{2}$$

$$(58) 3\sqrt{6} \div \sqrt{3} - \sqrt{18} \quad 0$$

$$(59) \sqrt{50} - 3\sqrt{10} \div \sqrt{5} \quad 2\sqrt{2}$$

$$(60) (3\sqrt{2}-2)(\sqrt{2}+3) \quad 7\sqrt{2}$$

$$(61) \sqrt{162} - \sqrt{10} \times \sqrt{5} \quad 4\sqrt{2}$$

$$(62) \sqrt{5}(3-\sqrt{3}) - \sqrt{20} \quad \sqrt{5} - \sqrt{15}$$

$$(63) 5\sqrt{14} \div \sqrt{2} - \sqrt{28} \quad 3\sqrt{7}$$

$$(64) \sqrt{45} - 6\sqrt{15} \div \sqrt{3} \quad -3\sqrt{5}$$

$$(65) (2\sqrt{5}+3)(\sqrt{5}-1) \quad 7+\sqrt{5}$$