◇「콘텐츠산업 진흥법 시행령」제33조에 의한 표시
1) 제작연월일 : 2016-02-16
2) 제작자 : 교육지대㈜
3) 이 콘텐츠는 「콘텐츠산업 진흥법」에 따라 최초 제작일부터 5년간 보호됩니다.

◇「콘텐츠산업 진흥법」외에도「저작권법」에 의하여 보호되는 콘텐츠의 경우, 그 콘텐츠의 전부 또는 일부를 무단으로 복제하거나 전송하는 것은 콘텐츠산업 진흥법 외에도 저작권법에 의한 법적 책임을 질 수 있습니다.

계산시 참고사항

1. 덧셈의 연산법칙
세 수 a, b, c에 대하여
(1) 덧셈의 교환법칙: $a+b=b+a$
(2) 덧셈의 결합법칙: $(a+b)+c=a+(b+c)$

2. 곱셈의 연산법칙
세 수 a, b, c에 대하여
(1) 곱셈의 교환법칙: $a\times b=b\times a$
(2) 곱셈의 결합법칙: $(a\times b)\times c=a\times(b\times c)$

3. 분배법칙
세 수 a, b, c에 대하여
$a\times(b+c)=a\times b+a\times c$, $(a+b)\times c=a\times c+b\times c$

참고
◉ 뺄셈에서는 교환법칙과 결합법칙이 성립하지 않는다.

◉ 나눗셈에서는 교환법칙과 결합법칙이 성립하지 않는다.

덧셈의 연산법칙

◪ 각 ㉠, ㉡을 계산하여라.

1. ㉠ $(+7)+(-3)$, ㉡ $(-3)+(+7)$

2. ㉠ $(-5)+(-6)$, ㉡ $(-6)+(-5)$

3. ㉠ $\{(+9)+(-4)\}+(-3)=(\square)+(-3)=\square$
㉡ $(+9)+\{(-4)+(-3)\}=(+9)+(\square)=\square$

4. ㉠ $\left\{(+3)+\left(-\frac{1}{2}\right)\right\}+\left(+\frac{3}{2}\right)=\left(\square\right)+\left(+\frac{3}{2}\right)=\square$
㉡ $(+3)+\left\{\left(-\frac{1}{2}\right)+\left(+\frac{3}{2}\right)\right\}=(+3)+(\square)=\square$

5. 다음 계산 과정에서 (가),(나)에 이용된 덧셈의 계산법칙을 구하여라.

$(-7)+(+2014)+(-10)+(-2014)$
$=(-7)+(+2014)+(-2014)+(-10)$ (가)
$=(-7)+\{(+2014)+(-2014)\}+(-10)$ (나)
$=(-7)+(-10)$
$=(-17)$

6. 다음 계산 과정에서 (가),(나)에 이용된 덧셈의 계산법칙을 구하여라.

$(+2.1)+(-4.6)+(+5.9)+(-1.4)$
$=(+2.1)+(+5.9)+(-4.6)+(-1.4)$ (가)
$=\{(+2.1)+(+5.9)\}+\{(-4.6)+(-1.4)\}$ (나)
$=(+8)+(-6)=+2$

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◪ **다음을 덧셈의 교환법칙과 결합법칙을 이용하여 계산하여라.**

7. $(+4)+(-9)-(-3)$

8. $(-3)+(+8)+(-7)$

9. $(+5)+(-9)+(+4)$

10. $(+4)+(-2)-(+6)$

11. $(+3)-(+9)+(+5)$

12. $(-7)+(+5)-(-2)$

13. $(+1)-(-3)+(+2)$

14. $(-2)+(-6)-(+4)$

15. $(-3)-(+7)+(-6)$

16. $(-9)-(-3)+(+4)$

17. $\left(+\frac{3}{4}\right)-\left(-\frac{9}{4}\right)+\left(-\frac{5}{4}\right)$

18. $\left(-\frac{2}{5}\right)+\left(+\frac{2}{3}\right)+\left(-\frac{3}{5}\right)$

19. $\left(+\frac{1}{8}\right)+\left(-\frac{1}{2}\right)-\left(-\frac{5}{3}\right)$

20. $\left(-\frac{7}{10}\right)-\left(+\frac{3}{5}\right)-(-1.3)$

21. $(-2.2)+\left(+\frac{7}{3}\right)-\left(-\frac{4}{5}\right)$

22. $(+4)+\left(-\frac{4}{3}\right)+(-3)$

23. $(+0.3)-\left(+\frac{1}{10}\right)+(+3)$

24. $\left(-\frac{1}{3}\right)+(+6)+\left(-\frac{8}{3}\right)$

25. $(+6)+(-3)-(-7)-(+5)$

26. $(-2)-(-6)+(+9)-(+1)$

27. $\left(+\frac{5}{8}\right)-\left(+\frac{5}{4}\right)+\left(-\frac{7}{4}\right)-\left(-\frac{3}{8}\right)$

28. $\left(+\frac{4}{5}\right)+\left(-\frac{1}{7}\right)+\left(+\frac{1}{5}\right)-\left(-\frac{8}{7}\right)$

29. $(-1.4)-\left(+\frac{2}{9}\right)+(-2.6)-\left(+\frac{16}{9}\right)$

30. $\left(+\frac{3}{10}\right)+(-0.8)-\left(-\frac{9}{10}\right)-(+1.5)$

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곱셈의 연산법칙

31. 다음 계산 과정에서 (가),(나)에 이용된 곱셈의 계산법칙을 구하여라.

$(-15)\times(-3)\times\left(-\frac{1}{5}\right)$
$=(-15)\times\left(-\frac{1}{5}\right)\times(-3)$ (가)
$=\left\{(-15)\times\left(-\frac{1}{5}\right)\right\}\times(-3)$ (나)
$=(+3)\times(-3)$
$=-9$

32. 다음 계산 과정에서 (가),(나)에 이용된 곱셈의 계산법칙을 구하여라.

$(+4)\times(-5)\times\left(+\frac{3}{2}\right)$
$=(-5)\times(+4)\times\left(+\frac{3}{2}\right)$ (가)
$=(-5)\times\left\{(+4)\times\left(+\frac{3}{2}\right)\right\}$ (나)
$=(-5)\times(+6)$
$=-(5\times6)$
$=-30$

◪ 다음을 곱셈의 교환법칙과 결합법칙을 이용하여 계산하여라.

33. $(-2)\times(+16)\times(-5)$

34. $(+5)\times(-9)\times(-6)$

35. $(-5)\times(+11)\times(+6)$

36. $\left(-\frac{3}{8}\right)\times(-7)\times\left(-\frac{8}{9}\right)$

37. $(+5)\times(-0.9)\times(+0.4)$

38. $(-0.9)\times\left(-\frac{1}{18}\right)\times(+10)$

39. $(+0.02)\times\left(+\frac{8}{3}\right)\times(+100)$

40. $\left(+\frac{3}{4}\right)\times\left(-\frac{5}{7}\right)\times\left(-\frac{20}{9}\right)$

41. $\left(+\frac{2}{13}\right)\times\left(-\frac{3}{25}\right)\times(+26)$

42. $\left(-\frac{3}{7}\right)\times(-0.5)\times\left(-\frac{14}{3}\right)$

43. $\left(+\frac{7}{3}\right)\times(-0.7)\times\left(-\frac{9}{7}\right)$

44. $(-0.5)\times(+5)\times(-4)$

45. $\left(+\frac{1}{2}\right)\times\left(-\frac{4}{5}\right)\times(-24)$

46. $\left(+\frac{5}{7}\right)\times(-2)\times\left(+\frac{14}{15}\right)$

47. $\left(+\frac{3}{8}\right)\times\left(-\frac{1}{7}\right)\times\left(-\frac{16}{9}\right)$

48. $(+9)\times\left(-\frac{3}{14}\right)\times\left(+\frac{7}{9}\right)$

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49. $(-5)\times(-1.1)\times(+0.8)$

50. $\left(-\frac{8}{21}\right)\times(-11)\times\left(+\frac{21}{16}\right)$

51. $(-4)\times(+9)\times(-25)$

52. $(-10)\times(+8)\times(+0.9)$

53. $(-3)\times(+14)\times\left(-\frac{1}{3}\right)$

54. $\left(+\frac{5}{8}\right)\times(-3)\times(-16)$

55. $\left(-\frac{7}{4}\right)\times\left(+\frac{2}{3}\right)\times\left(-\frac{4}{7}\right)$

56. $\left(+\frac{2}{5}\right)\times\left(-\frac{1}{3}\right)\times\left(-\frac{5}{4}\right)\times(+9)$

57. $(+4)\times\left(+\frac{5}{6}\right)\times(-5)\times\left(-\frac{9}{10}\right)$

58. $\left(-\frac{8}{11}\right)\times(+1.5)\times\left(+\frac{22}{3}\right)\times(+4)$

59. $\left(-\frac{12}{5}\right)\times\left(-\frac{14}{9}\right)\times(-3.6)\times\left(-\frac{25}{7}\right)$

분배법칙

◪ 다음 연산법칙에 대한 설명으로 옳은 것에는 ○표, 옳지 않은 것에는 ×표를 하여라.

60. $a\div b\times c=a\div(b\times c)$ ( )

61. $a\div b\div c=a\div(b\div c)$ ( )

62. $(a+b)\div c=a\div c+b\div c$ ( )

63. $a\times(b+c)=a\times b+a\times c$ ( )

64. $a\div(b+c)=a\div b+a\div c$ ( )

◪ 다음 식을 분배법칙을 이용하여 계산하여라.

65. $5\times(100-7)$

66. $(4+0.5)\times 6$

67. $34\times(20-2)$

68. $25\times(100+1)$

69. $(-4)\times\left(\frac{3}{2}-\frac{1}{4}\right)$

70. $\frac{5}{4}\times\left(\frac{8}{15}+\frac{12}{25}\right)$

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71. $-12\times\left(\frac{1}{6}-\frac{1}{18}\right)$

72. $\left(\frac{1}{3}-\frac{8}{15}\right)\times 9$

73. $\left(-\frac{2}{5}\right)\times 2+\left(-\frac{1}{5}\right)\times 2$

74. $(50+6)\times 2$

75. $6\times\left(\frac{2}{3}-\frac{7}{2}\right)$

76. $\left(\frac{5}{4}-\frac{10}{3}\right)\times(-12)$

77. $\frac{2}{13}\times\left(52+\frac{39}{2}\right)$

78. $(-5)\times(2-0.4)$

79. $\left(+\frac{3}{10}\right)\times(-4)+\left(-\frac{8}{15}\right)\times(-4)$

80. $\frac{1}{4}\times\left(-\frac{1}{5}\right)-\frac{1}{4}\times 1$

81. $15\times 65+15\times 35$

82. $28\times(-18)+28\times(+8)$

83. $16\times(+26)+16\times(-16)$

84. $(+29)\times 9+(-34)\times 9$

85. $(-12)\times 24+(+2)\times 24$

86. $3\times 27+3\times 33$

87. $122\times 24-22\times 24$

88. $\frac{7}{12}\times 37-\frac{7}{12}\times 13$

89. $14\times\frac{4}{3}+7\times\frac{4}{3}$

90. $1.75\times 84+1.75\times 16$

91. $73\times 1.2-23\times 1.2$

92. $67\times 97+67\times 3$

93. $49\times 2.6+51\times 2.6$

94. $0.7\times 27-0.7\times 17$

95. $\frac{1}{18}\times 6+\frac{1}{18}\times 12$

96. $\frac{3}{7}\times 4-\frac{3}{7}\times 18$

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97. $2\times\frac{4}{5}+8\times\frac{4}{5}$

98. $64\times14+36\times14$

99. $135\times99-135\times98$

100. $9999\times2222+3333\times3334$

101. $2.5\times(-12580)+2.5\times12590$

102. $3.14\times118-3.14\times18$

103. $0.123\times1203+0.123\times(-203)$

104. $5.23\times(-1.6)+5.23\times2.1-1.23\times0.5$

105. $9.23\times3.3+9.23\times(-2.8)-0.5\times1.23$

106. $(2\times3.64+98\times3.64)-(5.7\times7+5.3\times7)$

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정답 및 해설

1) ㉠ $+4$ ㉡ $+4$

2) ㉠ -11 ㉡ -11

3) ㉠ $+5,+2$ ㉡ $-7,+2$
⇨ ㉠ $\{(+9)+(-4)\}+(-3)=(+5)+(-3)=+2$
㉡ $(+9)+\{(-4)+(-3)\}=(+9)+(-7)=+2$

4) ㉠ $+\frac{5}{2},+4$ ㉡ $+1,+4$
⇨ ㉠ $\left\{(+3)+\left(-\frac{1}{2}\right)\right\}+\left(+\frac{3}{2}\right)=\left(+\frac{5}{2}\right)+\left(+\frac{3}{2}\right)=+4$
㉡ $(+3)+\left\{\left(-\frac{1}{2}\right)+\left(+\frac{3}{2}\right)\right\}=(+3)+(+1)=+4$

5) (1) 덧셈의 교환법칙 (2) 덧셈의 결합법칙
⇨ (1)에서 -10 과 -2014 의 자리를 바꾸어 더했으므로 '덧셈의 교환법칙'을 사용하였다.
(2)에서 $+2014$ 와 -2014 를 먼저 더했으므로 '덧셈의 결합법칙'이 사용되었다.

6) (가) 덧셈의 교환법칙 (나) 덧셈의 결합법칙

7) -2
⇨ $(+4)+(-9)-(-3)=(+4)+(-9)+(+3)$
$=(-5)+(+3)=-2$

8) -2
⇨ $(-3)+(+8)+(-7)=(+8)+\{(-3)+(-7)\}$
$=(+8)+(-10)=-2$

9) 0
⇨ $(+5)+(-9)+(+4)=\{(+5)+(+4)\}+(-9)$
$=(+9)+(-9)=0$

10) -4
⇨ $(+4)+(-2)-(+6)=(+4)+(-2)+(-6)$
$=(+2)+(-6)=-4$

11) -1
⇨ $(+3)-(+9)+(+5)=(+3)+(-9)+(+5)$
$=(-6)+(+5)=-1$

12) 0
⇨ $(-7)+(+5)-(-2)=(-7)+(+5)+(+2)$
$=(-2)+(+2)=0$

13) $+6$
⇨ $(+1)-(-3)+(+2)=(+1)+(+3)+(+2)$
$=(+4)+(+2)=+6$

14) -12
⇨ $(-2)+(-6)-(+4)=(-2)+(-6)+(-4)$
$=(-8)+(-4)=-12$

15) -16
⇨ $(-3)-(+7)+(-6)=(-3)+(-7)+(-6)$
$=(-10)+(-6)=-16$

16) -2
⇨ $(-9)-(-3)+(+4)=(-9)+(+3)+(+4)$
$=(-6)+(+4)=-2$

17) $+\frac{7}{4}$
⇨ $\left(+\frac{3}{4}\right)-\left(-\frac{9}{4}\right)+\left(-\frac{5}{4}\right)=\left(+\frac{3}{4}\right)+\left(+\frac{9}{4}\right)+\left(-\frac{5}{4}\right)$
$=\left(+\frac{12}{4}\right)+\left(-\frac{5}{4}\right)=+\frac{7}{4}$

18) $-\frac{1}{3}$
⇨ $\left(-\frac{2}{5}\right)+\left(+\frac{2}{3}\right)+\left(-\frac{3}{5}\right)$
$=\left(+\frac{2}{3}\right)+\left(-\frac{2}{5}\right)+\left(-\frac{3}{5}\right)$
$=\left(+\frac{2}{3}\right)+\left\{\left(-\frac{2}{5}\right)+\left(-\frac{3}{5}\right)\right\}$
$=\left(+\frac{2}{3}\right)+(-1)$
$=-\frac{1}{3}$

19) $+\frac{31}{24}$
⇨ $\left(+\frac{1}{8}\right)+\left(-\frac{1}{2}\right)-\left(-\frac{5}{3}\right)$
$=\left(+\frac{1}{8}\right)+\left(-\frac{1}{2}\right)+\left(+\frac{5}{3}\right)$
$=\left(+\frac{3}{24}\right)+\left(-\frac{12}{24}\right)+\left(+\frac{40}{24}\right)$
$=\left(-\frac{9}{24}\right)+\left(+\frac{40}{24}\right)=+\frac{31}{24}$

20) 0
⇨ $\left(-\frac{7}{10}\right)-\left(+\frac{3}{5}\right)-(-1.3)$
$=\left(-\frac{7}{10}\right)+\left(-\frac{3}{5}\right)+(+1.3)$
$=\left(-\frac{7}{10}\right)+\left(-\frac{6}{10}\right)+\left(+\frac{13}{10}\right)$
$=\left(-\frac{13}{10}\right)+\left(+\frac{13}{10}\right)=0$

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21) $+\frac{14}{15}$

⇨ $(-2.2)+\left(+\frac{7}{3}\right)-\left(-\frac{4}{5}\right)$

$=(-2.2)+\left(+\frac{7}{3}\right)+\left(+\frac{4}{5}\right)$

$=\left(-\frac{11}{5}\right)+\left(+\frac{7}{3}\right)+\left(+\frac{4}{5}\right)$

$=\left(-\frac{33}{15}\right)+\left(+\frac{35}{15}\right)+\left(+\frac{12}{15}\right)$

$=\left(+\frac{2}{15}\right)+\left(+\frac{12}{15}\right)=+\frac{14}{15}$

22) $-\frac{1}{3}$

⇨ $(+4)+\left(-\frac{4}{3}\right)+(-3)=\{(+4)+(-3)\}+\left(-\frac{4}{3}\right)$

$=(+1)+\left(-\frac{4}{3}\right)=-\frac{1}{3}$

23) $+\frac{16}{5}$

⇨ $(+0.3)-\left(+\frac{1}{10}\right)+(+3)$

$=\left(+\frac{3}{10}\right)+\left(-\frac{1}{10}\right)+(+3)$

$=\left(+\frac{1}{5}\right)+(+3)=+\frac{16}{5}$

24) $+3$

⇨ $\left(-\frac{1}{3}\right)+(+6)+\left(-\frac{8}{3}\right)=(+6)+\left\{\left(-\frac{1}{3}\right)+\left(-\frac{8}{3}\right)\right\}$

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

25) $+5$

⇨ $(+6)+(-3)-(-7)-(+5)$

$=(+6)+(-3)+(+7)+(-5)$

$=\{(+6)+(+7)\}+\{(-3)+(-5)\}$

$=(+13)+(-8)=+5$

26) $+12$

⇨ $(-2)-(-6)+(+9)-(+1)$

$=(-2)+(+6)+(+9)+(-1)$

$=\{(+6)+(+9)\}+\{(-2)+(-1)\}$

$=(+15)+(-3)=+12$

27) -2

⇨ $\left(+\frac{5}{8}\right)-\left(+\frac{5}{4}\right)+\left(-\frac{7}{4}\right)-\left(-\frac{3}{8}\right)$

$=\left(+\frac{5}{8}\right)+\left(-\frac{5}{4}\right)+\left(-\frac{7}{4}\right)+\left(+\frac{3}{8}\right)$

$=\left\{\left(+\frac{5}{8}\right)+\left(+\frac{3}{8}\right)\right\}+\left\{\left(-\frac{5}{4}\right)+\left(-\frac{7}{4}\right)\right\}$

$=(+1)+(-3)=-2$

28) $+2$

⇨ $\left(+\frac{4}{5}\right)+\left(-\frac{1}{7}\right)+\left(+\frac{1}{5}\right)-\left(-\frac{8}{7}\right)$

$=\left(+\frac{4}{5}\right)+\left(-\frac{1}{7}\right)+\left(+\frac{1}{5}\right)+\left(+\frac{8}{7}\right)$

$=\left\{\left(+\frac{4}{5}\right)+\left(+\frac{1}{5}\right)\right\}+\left\{\left(-\frac{1}{7}\right)+\left(+\frac{8}{7}\right)\right\}$

$=(+1)+(+1)=+2$

29) -6

⇨ $(-1.4)-\left(+\frac{2}{9}\right)+(-2.6)-\left(+\frac{16}{9}\right)$

$=(-1.4)+\left(-\frac{2}{9}\right)+(-2.6)+\left(-\frac{16}{9}\right)$

$=\{(-1.4)+(-2.6)\}+\left\{\left(-\frac{2}{9}\right)+\left(-\frac{16}{9}\right)\right\}$

$=(-4)+(-2)=-6$

30) $-\frac{11}{10}$

⇨ $\left(+\frac{3}{10}\right)+(-0.8)-\left(-\frac{9}{10}\right)-(+1.5)$

$=\left(+\frac{3}{10}\right)+(-0.8)+\left(+\frac{9}{10}\right)+(-1.5)$

$=\left\{\left(+\frac{3}{10}\right)+\left(+\frac{9}{10}\right)\right\}+\{(-0.8)+(-1.5)\}$

$=\left(+\frac{12}{10}\right)+(-2.3)=\left(+\frac{12}{10}\right)+\left(-\frac{23}{10}\right)=-\frac{11}{10}$

31) ㉠ 교환법칙 ㉡ 결합법칙

⇨ ㉠ -3, $-\frac{1}{5}$의 자리를 바꾸어 곱했으므로

곱셈의 교환법칙

㉡ -15, $-\frac{1}{5}$를 먼저 곱했으므로

곱셈의 결합법칙

32) ㉠ 교환법칙 ㉡ 결합법칙

⇨ $+4$ 와 -5 의 자리를 바꾸어 곱했으므로

㉠ 에는 곱셈의 교환법칙

㉡ 에서는 곱셈의 순서를 바꾸었으므로

곱셈의 결합법칙

33) $+160$

⇨ $(-2)\times(+16)\times(-5)$

$=(-2)\times(-5)\times(+16)$

$=\{(-2)\times(-5)\}\times(+16)$

$=(+10)\times(+16)=+160$

34) $+270$

⇨ $(+5)\times(-9)\times(-6)$

$=(+5)\times(-6)\times(-9)$

$=\{(+5)\times(-6)\}\times(-9)$

$=(-30)\times(-9)=+270$

35) -330

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⇨$(-5)\times(+11)\times(+6)$
$=(-5)\times(+6)\times(+11)$
$=\{(-5)\times(+6)\}\times(+11)$
$=(-30)\times(+11)=-330$

36) $-\frac{7}{3}$

⇨$\left(-\frac{3}{8}\right)\times(-7)\times\left(-\frac{8}{9}\right)$
$=(-7)\times\left(-\frac{3}{8}\right)\times\left(-\frac{8}{9}\right)$
$=(-7)\times\left\{\left(-\frac{3}{8}\right)\times\left(-\frac{8}{9}\right)\right\}$
$=(-7)\times\left(+\frac{1}{3}\right)=-\frac{7}{3}$

37) -1.8

⇨$(+5)\times(-0.9)\times(+0.4)$
$=(+5)\times(+0.4)\times(-0.9)$
$=\{(+5)\times(+0.4)\}\times(-0.9)$
$=(+2)\times(-0.9)=-1.8$

38) $+\frac{1}{2}$

⇨ $(-0.9)\times\left(-\frac{1}{18}\right)\times(+10)$
$=(-0.9)\times(+10)\times\left(-\frac{1}{18}\right)$
$=\{(-0.9)\times(+10)\}\times\left(-\frac{1}{18}\right)$
$=(-9)\times\left(-\frac{1}{18}\right)=+\frac{1}{2}$

39) $+\frac{16}{3}$

⇨ $(+0.02)\times\left(+\frac{8}{3}\right)\times(+100)$
$=(+0.02)\times(+100)\times\left(+\frac{8}{3}\right)$
$=\{(+0.02)\times(+100)\}\times\left(+\frac{8}{3}\right)$
$=(+2)\times\left(+\frac{8}{3}\right)=+\frac{16}{3}$

40) $+\frac{25}{21}$

⇨ $\left(+\frac{3}{4}\right)\times\left(-\frac{5}{7}\right)\times\left(-\frac{20}{9}\right)$
$=\left(+\frac{3}{4}\right)\times\left(-\frac{20}{9}\right)\times\left(-\frac{5}{7}\right)$
$=\left\{\left(+\frac{3}{4}\right)\times\left(-\frac{20}{9}\right)\right\}\times\left(-\frac{5}{7}\right)$
$=\left(-\frac{5}{3}\right)\times\left(-\frac{5}{7}\right)=+\frac{25}{21}$

41) $-\frac{12}{25}$

⇨ $\left(+\frac{2}{13}\right)\times\left(-\frac{3}{25}\right)\times(+26)$
$=\left(-\frac{3}{25}\right)\times\left(+\frac{2}{13}\right)\times(+26)$
$=\left(-\frac{3}{25}\right)\times\left\{\left(+\frac{2}{13}\right)\times(+26)\right\}$
$=\left(-\frac{3}{25}\right)\times(+4)=-\frac{12}{25}$

42) -1

⇨ $\left(-\frac{3}{7}\right)\times(-0.5)\times\left(-\frac{14}{3}\right)$
$=\left(-\frac{3}{7}\right)\times\left(-\frac{14}{3}\right)\times(-0.5)$
$=\left\{\left(-\frac{3}{7}\right)\times\left(-\frac{14}{3}\right)\right\}\times(-0.5)$
$=(+2)\times(-0.5)=-1$

43) $+2.1$

⇨ $\left(+\frac{7}{3}\right)\times(-0.7)\times\left(-\frac{9}{7}\right)$
$=(-0.7)\times\left(+\frac{7}{3}\right)\times\left(-\frac{9}{7}\right)$
$=(-0.7)\times\left\{\left(+\frac{7}{3}\right)\times\left(-\frac{9}{7}\right)\right\}$
$=(-0.7)\times(-3)$
$=+2.1$

44) $+10$

⇨ $(-0.5)\times(+5)\times(-4)$
$=(-0.5)\times(-4)\times(+5)$
$=\{(-0.5)\times(-4)\}\times(+5)$
$=(+2)\times(+5)$
$=+10$

45) $+\frac{48}{5}$

⇨ $\left(+\frac{1}{2}\right)\times\left(-\frac{4}{5}\right)\times(-24)$
$=\left(-\frac{4}{5}\right)\times\left(+\frac{1}{2}\right)\times(-24)$
$=\left(-\frac{4}{5}\right)\times\left\{\left(+\frac{1}{2}\right)\times(-24)\right\}$
$=\left(-\frac{4}{5}\right)\times(-12)$
$=+\frac{48}{5}$

46) $-\frac{4}{3}$

⇨ $\left(+\frac{5}{7}\right)\times(-2)\times\left(+\frac{14}{15}\right)$
$=(-2)\times\left(+\frac{5}{7}\right)\times\left(+\frac{14}{15}\right)$
$=(-2)\times\left\{\left(+\frac{5}{7}\right)\times\left(+\frac{14}{15}\right)\right\}$
$=(-2)\times\left(+\frac{2}{3}\right)=-\frac{4}{3}$

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47) $+\frac{2}{21}$

⇨ $\left(+\frac{3}{8}\right)\times\left(-\frac{1}{7}\right)\times\left(-\frac{16}{9}\right)$
$=\left(+\frac{3}{8}\right)\times\left(-\frac{16}{9}\right)\times\left(-\frac{1}{7}\right)$
$=\left\{\left(+\frac{3}{8}\right)\times\left(-\frac{16}{9}\right)\right\}\times\left(-\frac{1}{7}\right)$
$=\left(-\frac{2}{3}\right)\times\left(-\frac{1}{7}\right)=+\frac{2}{21}$

48) $-\frac{3}{2}$

⇨ $(+9)\times\left(-\frac{3}{14}\right)\times\left(+\frac{7}{9}\right)$
$=(+9)\times\left(+\frac{7}{9}\right)\times\left(-\frac{3}{14}\right)$
$=\left\{(+9)\times\left(+\frac{7}{9}\right)\right\}\times\left(-\frac{3}{14}\right)$
$=(+7)\times\left(-\frac{3}{14}\right)=-\frac{3}{2}$

49) $+4.4$

⇨ $(-5)\times(-1.1)\times(+0.8)$
$=(-5)\times(+0.8)\times(-1.1)$
$=\{(-5)\times(+0.8)\}\times(-1.1)$
$=(-4)\times(-1.1)=+4.4$

50) $+\frac{11}{2}$

⇨ $\left(-\frac{8}{21}\right)\times(-11)\times\left(+\frac{21}{16}\right)$
$=(-11)\times\left(-\frac{8}{21}\right)\times\left(+\frac{21}{16}\right)$
$=(-11)\times\left\{\left(-\frac{8}{21}\right)\times\left(+\frac{21}{16}\right)\right\}$
$=(-11)\times\left(-\frac{1}{2}\right)=+\frac{11}{2}$

51) $+900$

⇨ $(-4)\times(+9)\times(-25)=(+9)\times\{(-4)\times(-25)\}$
$=(+9)\times(+100)=+900$

52) -72

⇨ $(-10)\times(+8)\times(+0.9)$
$=(+8)\times\{(-10)\times(+0.9)\}$
$=(+8)\times(-9)=-72$

53) $+14$

⇨ $(-3)\times(+14)\times\left(-\frac{1}{3}\right)=(+14)\times\left\{(-3)\times\left(-\frac{1}{3}\right)\right\}$
$=(+14)\times(+1)=+14$

54) $+30$

⇨ $\left(+\frac{5}{8}\right)\times(-3)\times(-16)=\left\{\left(+\frac{5}{8}\right)\times(-16)\right\}\times(-3)$
$=(-10)\times(-3)=+30$

55) $\frac{2}{3}$

⇨ $\left(-\frac{7}{4}\right)\times\left(+\frac{2}{3}\right)\times\left(-\frac{4}{7}\right)$
$=\left\{\left(-\frac{7}{4}\right)\times\left(+\frac{2}{3}\right)\right\}\times\left(-\frac{4}{7}\right)$
$=\left\{\left(+\frac{2}{3}\right)\times\left(-\frac{7}{4}\right)\right\}\times\left(-\frac{4}{7}\right)$
$=\left(+\frac{2}{3}\right)\times\left\{\left(-\frac{7}{4}\right)\times\left(-\frac{4}{7}\right)\right\}$
$=\left(+\frac{2}{3}\right)\times(+1)=+\frac{2}{3}$

56) $\frac{3}{2}$

⇨ $\left(+\frac{2}{5}\right)\times\left(-\frac{1}{3}\right)\times\left(-\frac{5}{4}\right)\times(+9)$
$=\left(+\frac{2}{5}\right)\times\left(-\frac{5}{4}\right)\times\left(-\frac{1}{3}\right)\times(+9)$
$=\left(+\frac{2}{5}\right)\times\left(-\frac{5}{4}\right)\times\left\{\left(-\frac{1}{3}\right)\times(+9)\right\}$
$=\left(+\frac{2}{5}\right)\times\left(-\frac{5}{4}\right)\times(-3)$
$=\left(-\frac{1}{2}\right)\times(-3)=\frac{3}{2}$

57) $+15$

⇨ $(+4)\times\left(+\frac{5}{6}\right)\times(-5)\times\left(-\frac{9}{10}\right)$
$=+\left(4\times\frac{5}{6}\times5\times\frac{9}{10}\right)=+15$

58) -32

⇨ $\left(-\frac{8}{11}\right)\times(+1.5)\times\left(+\frac{22}{3}\right)\times(+4)$
$=\left(-\frac{8}{11}\right)\times\left(+\frac{3}{2}\right)\times\left(+\frac{22}{3}\right)\times(+4)$
$=-\left(\frac{8}{11}\times\frac{3}{2}\times\frac{22}{3}\times4\right)=-32$

59) $+48$

⇨ $\left(-\frac{12}{5}\right)\times\left(-\frac{14}{9}\right)\times(-3.6)\times\left(-\frac{25}{7}\right)$
$=\left(-\frac{12}{5}\right)\times\left(-\frac{14}{9}\right)\times\left(-\frac{18}{5}\right)\times\left(-\frac{25}{7}\right)$
$=+\left(\frac{12}{5}\times\frac{14}{9}\times\frac{18}{5}\times\frac{25}{7}\right)=+48$

60) X

⇨ $a\div b\times c=\frac{ac}{b},\ a\div(b\times c)=\frac{a}{bc}$

61) X

⇨ $a\div b\div c=\frac{a}{bc},\ a\div(b\div c)=\frac{ac}{b}$

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62) ○

63) ○

64) X

⇨ $a \div (b+c) = \frac{a}{b+c},\ a \div b + a \div c = \frac{a}{b} + \frac{a}{c}$

65) 465

⇨ $5 \times (100-7) = 5 \times 100 - 5 \times 7 = 500 - 35 = 465$

66) 27

⇨ $(4+0.5) \times 6 = 4 \times 6 + 0.5 \times 6 = 24 + 3 = 27$

67) 612

⇨ $34 \times (20-2) = 34 \times 20 - 34 \times 2$
$= 680 - 68 = 612$

68) 2525

⇨ $25 \times (100+1) = 25 \times 100 + 25 \times 1$
$= 2500 + 25 = 2525$

69) -5

⇨ $(-4) \times \left(\frac{3}{2} - \frac{1}{4}\right) = (-4) \times \frac{3}{2} - (-4) \times \frac{1}{4}$
$= -6 - (-1) = -6 + 1 = -5$

70) $\frac{19}{15}$

⇨ $\frac{5}{4} \times \left(\frac{8}{15} + \frac{12}{25}\right) = \left(\frac{5}{4} \times \frac{8}{15}\right) + \left(\frac{5}{4} \times \frac{12}{25}\right)$
$= \frac{2}{3} + \frac{3}{5} = \frac{10}{15} + \frac{9}{15} = \frac{19}{15}$

71) $-\frac{4}{3}$

⇨ $-12 \times \left(\frac{1}{6} - \frac{1}{18}\right)$
$= \left(-12 \times \frac{1}{6}\right) - \left(-12 \times \frac{1}{18}\right) = (-2) - \left(-\frac{2}{3}\right)$
$= \left(-\frac{6}{3}\right) + \left(+\frac{2}{3}\right) = -\frac{4}{3}$

72) $-\frac{9}{5}$

⇨ $\left(\frac{1}{3} - \frac{8}{15}\right) \times 9 = \left(\frac{1}{3} \times 9\right) - \left(\frac{8}{15} \times 9\right)$
$= 3 - \frac{24}{5} = \frac{15}{5} - \frac{24}{5} = -\frac{9}{5}$

73) $-\frac{6}{5}$

⇨ $\left(-\frac{2}{5}\right) \times 2 + \left(-\frac{1}{5}\right) \times 2 = \left\{\left(-\frac{2}{5}\right) + \left(-\frac{1}{5}\right)\right\} \times 2$
$= -\frac{3}{5} \times 2 = -\frac{6}{5}$

74) 112

⇨ $(50+6) \times 2 = 50 \times 2 + 6 \times 2 = 100 + 12 = 112$

75) -17

⇨ $6 \times \left(\frac{2}{3} - \frac{7}{2}\right) = 6 \times \frac{2}{3} - 6 \times \frac{7}{2} = 4 - 21 = -17$

76) 25

⇨ $\left(\frac{5}{4} - \frac{10}{3}\right) \times (-12) = \frac{5}{4} \times (-12) - \frac{10}{3} \times (-12)$
$= -15 + 40 = 25$

77) 11

⇨ $\frac{2}{13} \times \left(52 + \frac{39}{2}\right)$
$= \left(\frac{2}{13} \times 52\right) + \left(\frac{2}{13} \times \frac{39}{2}\right)$
$= 8 + 3 = 11$

78) -8

⇨ $(-5) \times (2-0.4) = (-5) \times 2 - (-5) \times 0.4$
$= -10 + 2 = -8$

79) $+\frac{14}{15}$

⇨ $\left(+\frac{3}{10}\right) \times (-4) + \left(-\frac{8}{15}\right) \times (-4)$
$= \left(+\frac{3}{10} - \frac{8}{15}\right) \times (-4) = \left(+\frac{9}{30} - \frac{16}{30}\right) \times (-4)$
$= \left(-\frac{7}{30}\right) \times (-4) = +\frac{14}{15}$

80) $-\frac{3}{10}$

⇨ $\frac{1}{4} \times \left(-\frac{1}{5}\right) - \frac{1}{4} \times 1 = \frac{1}{4} \times \left(-\frac{1}{5} - 1\right)$
$= \frac{1}{4} \times \left(-\frac{6}{5}\right) = -\frac{3}{10}$

81) 1500

⇨ (주어진 식)
$= 15 \times (65+35) = 15 \times 100 = 1500$

82) -280

⇨ $28 \times (-18) + 28 \times (+8)$
$= 28 \times (-18+8) = 28 \times (-10) = -280$

83) 160

⇨ $16 \times (+26) + 16 \times (-16) = 16 \times (26-16)$
$= 16 \times 10 = 160$

84) -45

⇨ $(+29) \times 9 + (-34) \times 9 = (29-34) \times 9$
$= (-5) \times 9 = -45$

85) -240

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⇨ $(-12)\times 24+(+2)\times 24$
$=\{(-12)\times(+2)\}\times 24=-10\times 24=-240$

86) 180
⇨ $3\times 27+3\times 33=3\times(27+33)=3\times 60=180$

87) 2400
⇨ $122\times 24-22\times 24=(122-22)\times 24=100\times 24=2400$

88) 14
⇨ $\frac{7}{12}\times 37-\frac{7}{12}\times 13=\frac{7}{12}\times(37-13)=\frac{7}{12}\times 24=14$

89) 28
⇨ $14\times\frac{4}{3}+7\times\frac{4}{3}=(14+7)\times\frac{4}{3}=21\times\frac{4}{3}=28$

90) 175
⇨ $1.75\times 84+1.75\times 16=1.75\times(84+16)=1.75\times 100=175$

91) 60
⇨ $73\times 1.2-23\times 1.2=(73-23)\times 1.2=50\times 1.2=60$

92) 6700
⇨ (주어진 식)
$=67\times(97+3)=67\times 100=6700$

93) 260
⇨ (주어진 식)
$=(49+51)\times 2.6=100\times 2.6=260$

94) 7
⇨ (주어진 식)
$=0.7\times(27-17)=0.7\times 10=7$

95) 1
⇨ $\frac{1}{18}\times 6+\frac{1}{18}\times 12=\frac{1}{18}\times(6+12)$
$=\frac{1}{18}\times 18=1$

96) -6
⇨ $\frac{3}{7}\times 4-\frac{3}{7}\times 18=\frac{3}{7}\times(4-18)$
$=\frac{3}{7}\times(-14)=-6$

97) 8
⇨ $2\times\frac{4}{5}+8\times\frac{4}{5}=(2+8)\times\frac{4}{5}=10\times\frac{4}{5}=8$

98) 1400
⇨ $64\times 14+36\times 14=(64+36)\times 14$
$=100\times 14=1400$

99) 135
⇨ $135\times 99-135\times 98=135\times(99-98)$
$=135\times 1=135$

100) 33330000
⇨ $3\times 3333\times 2222+3333\times 3334$
$=3333\times(2\times 2222+3334)$
$=3333\times(6666+3334)$
$=3333\times 10000$
$=33330000$

101) 25
⇨ $2.5\times\{(-12580)+12590\}$
$=2.5\times(+10)$
$=25$

102) 314
⇨ $3.14\times(118-18)$
$=3.14\times 100$
$=314$

103) 123
⇨ $0.123\times 1203+0.123\times(-203)$
$=0.123\times(1203-203)=0.123\times 1000=123$

104) 2
⇨ $5.23\times(-1.6)+5.23\times 2.1-1.23\times 0.5$
$=5.23\times(-1.6+2.1)-1.23\times 0.5$
$=5.23\times 0.5-1.23\times 0.5$
$=(5.23-1.23)\times 0.5$
$=4\times 0.5$
$=2$

105) 4
⇨ 분배법칙에 의해
$9.23\times 3.3+9.23\times(-2.8)-0.5\times 1.23$
$=9.23\times(3.3-2.8)-0.5\times 1.23$
$=9.23\times 0.5-0.5\times 1.23$
$=0.5\times(9.23-1.23)$
$=0.5\times 8$
$=4$

106) 287
⇨ $3.64\times(2+98)-7\times(5.7+5.3)$
$=3.64\times 100-7\times 11$
$=364-77$
$=287$

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