

Numbers Part 4

Exercise Worksheet 1.4 Solutions

1. Solve the following mixed operations of addition and subtraction:

i. $95 - 13 + 53 = 135$

ii. $94 - 34 + 93 = 153$

iii. $73 - 86 + 57 = 44$

iv. $81 - 17 + 65 = 129$

v. $88 - 88 + 91 = 91$

vi. $82 - 91 + 80 = 71$

vii. $75 - 73 + 53 = 55$

viii. $71 - 47 + 96 = 120$

ix. $98 - 25 + 79 = 152$

x. $96 - 41 + 91 = 146$

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2. Solve the following mixed operations of addition and subtraction:

i. $98 + 53 - 63 = 88$

ii. $62 + 94 - 38 = 118$

iii. $67 + 82 - 59 = 90$

iv. $82 + 82 - 36 = 128$

v. $97 + 66 - 80 = 83$

vi. $67 + 71 - 54 = 84$

vii. $98 + 51 - 37 = 112$

viii. $96 + 97 - 76 = 117$

ix. $62 + 90 - 100 = 52$

x. $79 + 67 - 29 = 117$

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3. Solve the following mixed operations of multiplication and division:

i. $10 \times 110 \div 22 = 50$

ii. $11 \times 44 \div 11 = 44$

iii. $11 \times 115 \div 23 = 55$

iv. $14 \times 50 \div 10 = 70$

v. $15 \times 102 \div 17 = 90$

vi. $15 \times 72 \div 9 = 120$

vii. $14 \times 144 \div 24 = 84$

viii. $13 \times 81 \div 9 = 117$

ix. $10 \times 30 \div 5 = 60$

x. $12 \times 95 \div 19 = 60$

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4. Solve the following mixed operations of multiplication and division:

i. $15 \div 5 \times 15 = 45$

ii. $35 \div 5 \times 12 = 84$

iii. $70 \div 14 \times 14 = 70$

iv. $44 \div 11 \times 13 = 52$

v. $171 \div 19 \times 15 = 135$

vi. $77 \div 11 \times 15 = 105$

vii. $50 \div 10 \times 11 = 55$

viii. $170 \div 17 \times 14 = 140$

ix. $42 \div 14 \times 13 = 39$

x. $144 \div 24 \times 11 = 66$

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5. Solve the following mixed operations:

$$\text{i. } (8 + 5) \times 72 \div 9 - 2 = 102$$

$$\text{ii. } (6 + 9) \times 56 \div 7 - 4 = 116$$

$$\text{iii. } (7 + 10) \times 27 \div 3 - 2 = 151$$

$$\text{iv. } (8 + 3) \times 27 \div 9 - 4 = 29$$

$$\text{v. } (9 + 7) \times 39 \div 3 - 4 = 204$$

$$\text{vi. } (8 + 6) \times 45 \div 5 - 4 = 122$$

$$\text{vii. } (10 + 7) \times 42 \div 7 - 4 = 98$$

$$\text{viii. } (3 + 10) \times 108 \div 9 - 5 = 151$$

$$\text{ix. } (10 + 3) \times 40 \div 5 - 5 = 99$$

$$\text{x. } (8 + 5) \times 88 \div 8 - 3 = 140$$

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6. Solve the following mixed operations:

i. $5 + (5 + 5) \times 7 - 5 = 70$

ii. $5 + (9 + 5) \times 10 - 4 = 141$

iii. $5 + (5 + 10) \times 7 - 2 = 108$

iv. $2 + (4 + 6) \times 7 - 3 = 69$

v. $2 + (6 + 5) \times 5 - 2 = 55$

vi. $4 + (9 + 8) \times 12 - 5 = 203$

vii. $5 + (8 + 4) \times 3 - 2 = 39$

viii. $3 + (7 + 6) \times 9 - 2 = 118$

ix. $5 + (9 + 7) \times 5 - 2 = 83$

x. $4 + (8 + 8) \times 12 - 5 = 191$

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7. Solve the following mixed operations:

i. $(5 \times 42) \div 7 = 30$

ii. $(4 \times 108) \div 9 = 48$

iii. $(10 \times 130) \div 10 = 130$

iv. $(3 \times 65) \div 5 = 39$

v. $(9 \times 30) \div 3 = 90$

vi. $(9 \times 27) \div 3 = 81$

vii. $(3 \times 78) \div 6 = 39$

viii. $(4 \times 70) \div 10 = 28$

ix. $(10 \times 72) \div 9 = 80$

x. $(8 \times 104) \div 8 = 104$

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8. Solve the following mixed operations:

i. $(40 \div 10) \times 8 + 5 - 5 = 32$

ii. $(12 \div 4) \times 6 + 4 - 3 = 19$

iii. $(63 \div 7) \times 9 + 3 - 4 = 80$

iv. $(99 \div 9) \times 3 + 5 - 5 = 33$

v. $(21 \div 3) \times 11 + 3 - 2 = 78$

vi. $(56 \div 7) \times 11 + 5 - 4 = 89$

vii. $(72 \div 8) \times 10 + 2 - 2 = 90$

viii. $(24 \div 4) \times 12 + 2 - 4 = 70$

ix. $(44 \div 4) \times 11 + 5 - 5 = 121$

x. $(32 \div 4) \times 9 + 3 - 4 = 71$

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9. Solve the following mixed operations:

i. $(42 \div 6) \times 7 - 5 + 2 = 46$

ii. $(15 \div 3) \times 5 - 2 + 5 = 28$

iii. $(56 \div 7) \times 3 - 2 + 3 = 25$

iv. $(42 \div 6) \times 12 - 5 + 2 = 81$

v. $(90 \div 10) \times 8 - 2 + 5 = 75$

vi. $(54 \div 6) \times 5 - 4 + 4 = 45$

vii. $(35 \div 7) \times 11 - 4 + 4 = 55$

viii. $(36 \div 3) \times 8 - 3 + 3 = 96$

ix. $(78 \div 6) \times 12 - 2 + 4 = 158$

x. $(24 \div 8) \times 11 - 2 + 3 = 34$

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10. Solve the following mixed operations:

i. $2 + (110 \div 10) \times 4 - 5 = 41$

ii. $5 + (24 \div 4) \times 3 - 2 = 21$

iii. $5 + (36 \div 6) \times 11 - 2 = 69$

iv. $3 + (21 \div 7) \times 11 - 4 = 32$

v. $2 + (70 \div 10) \times 13 - 4 = 89$

vi. $5 + (35 \div 5) \times 9 - 4 = 64$

vii. $4 + (28 \div 4) \times 10 - 5 = 69$

viii. $4 + (27 \div 9) \times 4 - 2 = 14$

ix. $3 + (36 \div 4) \times 4 - 5 = 34$

x. $2 + (63 \div 7) \times 10 - 3 = 89$

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11. Solve the following mixed operations:

$$\text{i. } 99 \div 9 + 2^4 - 3 = 24$$

$$\text{ii. } 90 \div 9 + 4^2 - 4 = 22$$

$$\text{iii. } 35 \div 5 + 3^3 - 3 = 31$$

$$\text{iv. } 63 \div 9 + 2^3 - 3 = 12$$

$$\text{v. } 70 \div 7 + 2^4 - 3 = 23$$

$$\text{vi. } 42 \div 7 + 4^3 - 2 = 68$$

$$\text{vii. } 40 \div 4 + 3^2 - 4 = 15$$

$$\text{viii. } 48 \div 4 + 5^2 - 3 = 34$$

$$\text{ix. } 50 \div 10 + 4^2 - 4 = 17$$

$$\text{x. } 35 \div 7 + 5^4 - 2 = 628$$

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12. Solve the following mixed operations:

$$\text{i. } (3 \times 42) \div 7 + 3 = 21$$

$$\text{ii. } (6 \times 63) \div 7 + 4 = 58$$

$$\text{iii. } (8 \times 90) \div 9 + 3 = 83$$

$$\text{iv. } (3 \times 90) \div 9 + 3 = 33$$

$$\text{v. } (7 \times 70) \div 10 + 4 = 53$$

$$\text{vi. } (9 \times 40) \div 4 + 2 = 92$$

$$\text{vii. } (4 \times 32) \div 8 + 3 = 19$$

$$\text{viii. } (7 \times 72) \div 6 + 3 = 87$$

$$\text{ix. } (10 \times 55) \div 5 + 2 = 112$$

$$\text{x. } (8 \times 84) \div 7 + 4 = 100$$

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13. Expand the following expressions using the distributive laws:

i. $(8 + 2) \times 3 = (8 \times 3) + (2 \times 3)$

ii. $(2 + 10) \times 9 = (2 \times 9) + (10 \times 9)$

iii. $(2 + 5) \times 6 = (2 \times 6) + (5 \times 6)$

iv. $(3 + 9) \times 3 = (3 \times 3) + (9 \times 3)$

v. $(6 + 3) \times 10 = (6 \times 10) + (3 \times 10)$

vi. $(8 + 8) \times 5 = (8 \times 5) + (8 \times 5)$

vii. $(3 + 7) \times 10 = (3 \times 10) + (7 \times 10)$

viii. $(6 + 3) \times 10 = (6 \times 10) + (3 \times 10)$

ix. $(5 + 5) \times 5 = (5 \times 5) + (5 \times 5)$

x. $(9 + 3) \times 4 = (9 \times 4) + (3 \times 4)$

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14. Expand the following expressions using the distributive laws:

i. $8 \times (6 + 3) = (8 \times 6) + (8 \times 3)$

ii. $3 \times (5 + 8) = (3 \times 5) + (3 \times 8)$

iii. $7 \times (7 + 9) = (7 \times 7) + (7 \times 9)$

iv. $2 \times (9 + 8) = (2 \times 9) + (2 \times 8)$

v. $2 \times (7 + 10) = (2 \times 7) + (2 \times 10)$

vi. $9 \times (6 + 6) = (9 \times 6) + (9 \times 6)$

vii. $6 \times (9 + 10) = (6 \times 9) + (6 \times 10)$

viii. $9 \times (8 + 5) = (9 \times 8) + (9 \times 5)$

ix. $9 \times (7 + 2) = (9 \times 7) + (9 \times 2)$

x. $10 \times (8 + 10) = (10 \times 8) + (10 \times 10)$

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15. Expand the following expressions using the distributive laws:

i. $5 \times (8 - 6) = (5 \times 8) - (5 \times 6)$

ii. $9 \times (4 - 5) = (9 \times 4) - (9 \times 5)$

iii. $9 \times (8 - 5) = (9 \times 8) - (9 \times 5)$

iv. $7 \times (4 - 3) = (7 \times 4) - (7 \times 3)$

v. $10 \times (7 - 3) = (10 \times 7) - (10 \times 3)$

vi. $9 \times (9 - 10) = (9 \times 9) - (9 \times 10)$

vii. $2 \times (9 - 4) = (2 \times 9) - (2 \times 4)$

viii. $9 \times (5 - 8) = (9 \times 5) - (9 \times 8)$

ix. $2 \times (10 - 2) = (2 \times 10) - (2 \times 2)$

x. $2 \times (9 - 6) = (2 \times 9) - (2 \times 6)$