Writing Numerical Expressions - ANSWER KEY

Grade 5 | Writing expressions from words and interpreting them without calculating | Version 1 of 10

Use parentheses to show which operation comes first. Example: "add 5 and 3, then multiply by 2" is (5 + 3) × 2.

Part A: Write an expression for each phrase. Do not solve.

1. Half of the difference of 56 and 26: **(56 – 26) ÷ 2**
2. Add 4 and 19, then multiply by 3: **(4 + 19) × 3**
3. Add 3 to the product of 11 and 10: **11 × 10 + 3**
4. 6 times the sum of 19 and 23: **6 × (19 + 23)**
5. Subtract 18 from 27, then multiply by 4: **(27 – 18) × 4**

Part B: Write an expression, then evaluate it.

6. Multiply 2 by 7, then add 15: **2 × 7 + 15 = 29**
7. Divide 56 by 7, then subtract 5: **56 ÷ 7 – 5 = 3**
8. Subtract 13 from 69, then divide by 7: **(69 – 13) ÷ 7 = 8**

Part C: Compare without calculating.

9. Compare 6 × (2,439 + 836) with 2,439 + 836. The first is **6 times as large**
10. Compare 3 × (2,116 + 467) with 2,116 + 467. The first is **3 times as large**
11. Compare 4 × (960 + 838) with 960 + 838. The first is **4 times as large**

Writing Numerical Expressions - ANSWER KEY

Grade 5 | Writing expressions from words and interpreting them without calculating | Version 2 of 10

Use parentheses to show which operation comes first. Example: "add 5 and 3, then multiply by 2" is (5 + 3) × 2.

Part A: Write an expression for each phrase. Do not solve.

1. Subtract 24 from 55, then multiply by 6: **(55 – 24) × 6**
2. Divide 20 by 4, then subtract 1: **20 ÷ 4 – 1**
3. Multiply 4 by 11, then add 21: **4 × 11 + 21**
4. Add 17 and 6, then multiply by 6: **(17 + 6) × 6**
5. Half of the difference of 27 and 13: **(27 – 13) ÷ 2**

Part B: Write an expression, then evaluate it.

6. Subtract 5 from 47, then divide by 6: **(47 – 5) ÷ 6 = 7**
7. Add 7 to the product of 3 and 7: **3 × 7 + 7 = 28**
8. 2 times the sum of 23 and 21: **2 × (23 + 21) = 88**

Part C: Compare without calculating.

9. Compare 6 × (2,076 + 472) with 2,076 + 472. The first is **6 times as large**
10. Compare 5 × (1,820 + 730) with 1,820 + 730. The first is **5 times as large**
11. Compare 3 × (2,902 + 915) with 2,902 + 915. The first is **3 times as large**

Writing Numerical Expressions - ANSWER KEY

Grade 5 | Writing expressions from words and interpreting them without calculating | Version 3 of 10

Use parentheses to show which operation comes first. Example: "add 5 and 3, then multiply by 2" is (5 + 3) × 2.

Part A: Write an expression for each phrase. Do not solve.

1. Half of the difference of 46 and 6: **(46 – 6) ÷ 2**
2. Add 17 and 17, then multiply by 4: **(17 + 17) × 4**
3. Subtract 32 from 45, then multiply by 5: **(45 – 32) × 5**
4. Add 15 to the product of 3 and 12: **3 × 12 + 15**
5. 3 times the sum of 10 and 5: **3 × (10 + 5)**

Part B: Write an expression, then evaluate it.

6. Multiply 4 by 2, then add 13: **4 × 2 + 13 = 21**
7. Subtract 1 from 23, then divide by 2: **(23 – 1) ÷ 2 = 11**
8. Divide 80 by 8, then subtract 6: **80 ÷ 8 – 6 = 4**

Part C: Compare without calculating.

9. Compare 3 × (1,387 + 752) with 1,387 + 752. The first is **3 times as large**
10. Compare 4 × (1,354 + 914) with 1,354 + 914. The first is **4 times as large**
11. Compare 4 × (1,111 + 606) with 1,111 + 606. The first is **4 times as large**

Writing Numerical Expressions - ANSWER KEY

Grade 5 | Writing expressions from words and interpreting them without calculating | Version 4 of 10

Use parentheses to show which operation comes first. Example: "add 5 and 3, then multiply by 2" is (5 + 3) × 2.

Part A: Write an expression for each phrase. Do not solve.

1. Divide 35 by 5, then subtract 4: **35 ÷ 5 – 4**
2. Subtract 19 from 43, then multiply by 5: **(43 – 19) × 5**
3. Multiply 5 by 5, then add 17: **5 × 5 + 17**
4. Add 14 to the product of 4 and 9: **4 × 9 + 14**
5. Half of the difference of 23 and 3: **(23 – 3) ÷ 2**

Part B: Write an expression, then evaluate it.

6. 5 times the sum of 21 and 11: **5 × (21 + 11) = 160**
7. Add 5 and 12, then multiply by 8: **(5 + 12) × 8 = 136**
8. Subtract 7 from 25, then divide by 9: **(25 – 7) ÷ 9 = 2**

Part C: Compare without calculating.

9. Compare 6 × (1,158 + 805) with 1,158 + 805. The first is **6 times as large**
10. Compare 2 × (986 + 171) with 986 + 171. The first is **2 times as large**
11. Compare 3 × (1,009 + 995) with 1,009 + 995. The first is **3 times as large**

Writing Numerical Expressions - ANSWER KEY

Grade 5 | Writing expressions from words and interpreting them without calculating | Version 5 of 10

Use parentheses to show which operation comes first. Example: "add 5 and 3, then multiply by 2" is (5 + 3) × 2.

Part A: Write an expression for each phrase. Do not solve.

1. Multiply 12 by 3, then add 2: **12 × 3 + 2**
2. Subtract 29 from 56, then multiply by 4: **(56 – 29) × 4**
3. Add 35 to the product of 4 and 12: **4 × 12 + 35**
4. Divide 108 by 9, then subtract 8: **108 ÷ 9 – 8**
5. 2 times the sum of 6 and 4: **2 × (6 + 4)**

Part B: Write an expression, then evaluate it.

6. Half of the difference of 29 and 25: **(29 – 25) ÷ 2 = 2**
7. Add 16 and 4, then multiply by 5: **(16 + 4) × 5 = 100**
8. Subtract 12 from 16, then divide by 2: **(16 – 12) ÷ 2 = 2**

Part C: Compare without calculating.

9. Compare 4 × (1,260 + 305) with 1,260 + 305. The first is **4 times as large**
10. Compare 6 × (1,321 + 684) with 1,321 + 684. The first is **6 times as large**
11. Compare 3 × (2,820 + 764) with 2,820 + 764. The first is **3 times as large**

Writing Numerical Expressions - ANSWER KEY

Grade 5 | Writing expressions from words and interpreting them without calculating | Version 6 of 10

Use parentheses to show which operation comes first. Example: "add 5 and 3, then multiply by 2" is (5 + 3) × 2.

Part A: Write an expression for each phrase. Do not solve.

1. Multiply 5 by 6, then add 21: **5 × 6 + 21**
2. Add 13 and 11, then multiply by 3: **(13 + 11) × 3**
3. Half of the difference of 33 and 3: **(33 – 3) ÷ 2**
4. 9 times the sum of 13 and 17: **9 × (13 + 17)**
5. Subtract 6 from 24, then divide by 6: **(24 – 6) ÷ 6**

Part B: Write an expression, then evaluate it.

6. Divide 56 by 8, then subtract 1: **56 ÷ 8 – 1 = 6**
7. Add 14 to the product of 7 and 9: **7 × 9 + 14 = 77**
8. Subtract 3 from 37, then multiply by 5: **(37 – 3) × 5 = 170**

Part C: Compare without calculating.

9. Compare 5 × (614 + 742) with 614 + 742. The first is **5 times as large**
10. Compare 4 × (2,156 + 276) with 2,156 + 276. The first is **4 times as large**
11. Compare 3 × (806 + 253) with 806 + 253. The first is **3 times as large**

Writing Numerical Expressions - ANSWER KEY

Grade 5 | Writing expressions from words and interpreting them without calculating | Version 7 of 10

Use parentheses to show which operation comes first. Example: "add 5 and 3, then multiply by 2" is (5 + 3) × 2.

Part A: Write an expression for each phrase. Do not solve.

1. Subtract 24 from 50, then multiply by 5: **(50 – 24) × 5**
2. 2 times the sum of 19 and 22: **2 × (19 + 22)**
3. Half of the difference of 47 and 39: **(47 – 39) ÷ 2**
4. Divide 72 by 6, then subtract 11: **72 ÷ 6 – 11**
5. Subtract 20 from 101, then divide by 9: **(101 – 20) ÷ 9**

Part B: Write an expression, then evaluate it.

6. Add 40 to the product of 10 and 11: **10 × 11 + 40 = 150**
7. Multiply 9 by 8, then add 11: **9 × 8 + 11 = 83**
8. Add 16 and 4, then multiply by 3: **(16 + 4) × 3 = 60**

Part C: Compare without calculating.

9. Compare 6 × (2,281 + 136) with 2,281 + 136. The first is **6 times as large**
10. Compare 4 × (349 + 336) with 349 + 336. The first is **4 times as large**
11. Compare 3 × (594 + 900) with 594 + 900. The first is **3 times as large**

Writing Numerical Expressions - ANSWER KEY

Grade 5 | Writing expressions from words and interpreting them without calculating | Version 8 of 10

Use parentheses to show which operation comes first. Example: "add 5 and 3, then multiply by 2" is (5 + 3) × 2.

Part A: Write an expression for each phrase. Do not solve.

1. Half of the difference of 31 and 25: **(31 – 25) ÷ 2**
2. Subtract 10 from 25, then multiply by 5: **(25 – 10) × 5**
3. Multiply 7 by 7, then add 14: **7 × 7 + 14**
4. Divide 96 by 8, then subtract 1: **96 ÷ 8 – 1**
5. Add 6 to the product of 8 and 12: **8 × 12 + 6**

Part B: Write an expression, then evaluate it.

6. Add 6 and 7, then multiply by 6: **(6 + 7) × 6 = 78**
7. 7 times the sum of 13 and 24: **7 × (13 + 24) = 259**
8. Subtract 6 from 51, then divide by 9: **(51 – 6) ÷ 9 = 5**

Part C: Compare without calculating.

9. Compare 6 × (1,956 + 357) with 1,956 + 357. The first is **6 times as large**
10. Compare 3 × (2,798 + 174) with 2,798 + 174. The first is **3 times as large**
11. Compare 5 × (1,437 + 184) with 1,437 + 184. The first is **5 times as large**

Writing Numerical Expressions - ANSWER KEY

Grade 5 | Writing expressions from words and interpreting them without calculating | Version 9 of 10

Use parentheses to show which operation comes first. Example: "add 5 and 3, then multiply by 2" is (5 + 3) × 2.

Part A: Write an expression for each phrase. Do not solve.

1. 7 times the sum of 18 and 20: **7 × (18 + 20)**
2. Add 38 to the product of 6 and 4: **6 × 4 + 38**
3. Subtract 19 from 51, then divide by 8: **(51 – 19) ÷ 8**
4. Subtract 15 from 42, then multiply by 5: **(42 – 15) × 5**
5. Add 3 and 12, then multiply by 3: **(3 + 12) × 3**

Part B: Write an expression, then evaluate it.

6. Divide 35 by 7, then subtract 4: **35 ÷ 7 – 4 = 1**
7. Multiply 2 by 9, then add 11: **2 × 9 + 11 = 29**
8. Half of the difference of 45 and 39: **(45 – 39) ÷ 2 = 3**

Part C: Compare without calculating.

9. Compare 4 × (2,992 + 232) with 2,992 + 232. The first is **4 times as large**
10. Compare 2 × (2,270 + 975) with 2,270 + 975. The first is **2 times as large**
11. Compare 5 × (2,893 + 646) with 2,893 + 646. The first is **5 times as large**

Writing Numerical Expressions - ANSWER KEY

Grade 5 | Writing expressions from words and interpreting them without calculating | Version 10 of 10

Use parentheses to show which operation comes first. Example: "add 5 and 3, then multiply by 2" is (5 + 3) × 2.

Part A: Write an expression for each phrase. Do not solve.

1. Add 24 to the product of 3 and 11: **3 × 11 + 24**
2. Multiply 6 by 8, then add 13: **6 × 8 + 13**
3. 8 times the sum of 11 and 12: **8 × (11 + 12)**
4. Subtract 4 from 49, then multiply by 2: **(49 – 4) × 2**
5. Half of the difference of 61 and 21: **(61 – 21) ÷ 2**

Part B: Write an expression, then evaluate it.

6. Subtract 17 from 65, then divide by 4: **(65 – 17) ÷ 4 = 12**
7. Add 6 and 13, then multiply by 5: **(6 + 13) × 5 = 95**
8. Divide 40 by 8, then subtract 2: **40 ÷ 8 – 2 = 3**

Part C: Compare without calculating.

9. Compare 5 × (1,180 + 481) with 1,180 + 481. The first is **5 times as large**
10. Compare 4 × (2,129 + 522) with 2,129 + 522. The first is **4 times as large**
11. Compare 3 × (1,536 + 913) with 1,536 + 913. The first is **3 times as large**