

Grade 7 Hon Prep Work
3.2 Operations with Decimals

Name _____

Date _____

1. Give the quotient to the nearest hundredth:
 $0.1236 \div 0.09$
2. Express as a decimal: $3.7(5.1 - (0.3)^2)$
3. Compute: $(8.3 - 0.65) \div 1.5$ and express your answer as a decimal.
4. Compute $8(0.5)^3 + 16(0.1)^3$ and express your answer as a decimal.
5. Express as a decimal: $10000 - 1.9$
6. Express as a decimal: $|6.3| - |-6.15|$
7. Calculate the product 0.057×0.63 and give your answer as a decimal.
8. Express in simplest form: $48.24 \div 0.12$
9. What is the 184th digit to the right of the decimal point in the decimal expansion of $\frac{5}{37}$?
10. Simplify: $(11 \div 1.\overline{11}) \div 0.1$

11. Find the product of 3.101 and 4.2001 to two significant digits.
12. What is the reciprocal of $0.\overline{3} + 0.25$ expressed as a common fraction?
13. Find the value of $0.2 + 0.08 + 0.004$. Express your answer as a decimal.
14. Simplify $(22 + 2.22) \div 0.2$. Express your answer as a decimal.
15. Calculate $0.375 \cdot 1608$ and express your answer as a decimal.
16. Express $17(0.15) + 36(0.15) - 0.15(3)$ as a decimal.
17. What is the positive difference between the product of the two numbers 4 and 5 and their sum?
18. King School is planning a field trip. Every student must be accompanied by a guide, and no guide can accompany more than twelve students. What is the minimum number of guides required to accompany 147 students?
19. Find the sum $472 + (219 + 28)$.
20. Find the positive difference between $2(6) + 4(3)$ and $8(3 + 3)$.

Answer List

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|------------|-----------|--------------------|
| 1. 1.37 | 2. 18.537 | 3. 5.1 |
| 4. 1.016 | 5. 9998.1 | 6. 0.15 |
| 7. 0.03591 | 8. 402 | 9. 1 |
| 10. 99 | 11. 13 | 12. $\frac{12}{7}$ |
| 13. 0.284 | 14. 121.1 | 15. 603 |
| 16. 7.5 | 17. 11 | 18. 13 (guides) |
| 19. 719 | 20. 24 | |

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