Math Power

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Multiplication by adding zeros

1. $200 \times 500 =$

2. $80 \times 40 =$

3. $60 \times 40 =$

4. $700 \times 40 =$

5. $60 \times 400 =$

6. $700 \times 400 =$

7. $20 \times 500 =$

8. $90 \times 40 =$

9. $200 \times 50 =$

10. $70 \times 400 =$

Number Operations: More Multiplications

11. $3 \times 5 \times 7 =$

12. $0.07 \times 3 \times 2 =$

13. $6 \times 0.07 \times 0.03 =$

14. $8 \times 4 \times 0.8 =$

15. $7 \times 2 \times 5 =$

16. $5 \times 5 \times 3 =$

17. $0.07 \times 4 \times 0.04 =$

18. $6 \times 7 \times 8 =$

19. $2 \times 3 \times 5 =$

20. $3 \times 2 \times 6 =$

21. $6 \times 8 \times 0.08 =$

22. $2 \times 0.08 \times 2 =$

23. $3 \times 4 \times 2 =$

24. $4 \times 2 \times 6 =$

25. $2 \times 8 \times 2 =$

26. $0.3 \times 5 \times 7 =$

27. $2 \times 2 \times 0.01 =$

28. $3 \times 2 \times 0.03 =$

29. $3 \times 8 \times 4 =$

30. $5 \times 2 \times 0.7 =$

Conversion between Decimals and Fractions

For a decimal, convert it to a fraction or mixed number. For a fraction, convert it to a decimal.

$\frac{2}{5} = 5\overline{)2.0} = 0.4$

$0.35 = \frac{35}{100} = \frac{7}{20}$

Convert a decimal number to a fraction/mixed number. Convert a fraction/mixed number into a decimal number.

31. $\frac{23}{4} =$

32. $0.4 =$

33. $1.25 =$

34. $\frac{3}{6} =$

35. 0.2 =

36. $\frac{1}{10} =$

37. 0.4 =

38. $\frac{3}{4} =$

39. 0.5 =

For a decimal, convert it to a fraction or mixed number. For a fraction, convert it to a decimal.

40. $\frac{2}{5} =$

41. 0.35 =

42. $\frac{1}{4} =$

43. 0.6 =

44. $\frac{1}{8} =$

45. 0.8 =

46. $\frac{16}{20} =$

47. 0.25 =

48. $\frac{6}{30} =$

49. 0.75 =

50. 2.125

GT4 Integrated Review

Question set [**51 - 54**]

Multiplication can be simplified by using power form, $2\times2\times2 = 2^3 = 8$. In the power form 2^3, 2 is called base and 3 is called exponent. Simplify each of the following multiplications using power form:

51. $5\times5\times5\times5 = 5^{\square} =$

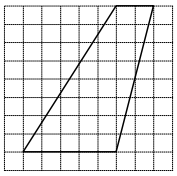
52. $2\times2\times2\times2\times2 = 2^{\square} =$

53. $3\times3\times3 = 3^{\square} =$

54. $\frac{1}{2}\times\frac{1}{2}\times\frac{1}{2}\times\frac{1}{2} = (\square)^4 =$

55. $5\frac{1}{8} + 2\frac{1}{2}$

56. What is the area of the following figure? (Each smaller square is one square in.)



57. The difference of two numbers is 5. If the larger number is 20. What is the sum of the two numbers?

58. The sum of 2 numbers is 34. A third number is 8. What is the average of these three numbers?

59. The Incredible Growing Boy grows 8 cm taller each year. If he is 1 m tall at the age of 10, how tall will he be when he is 16 years old? (Note: 1 m = 100 cm)
_____ cm

60. 9 - 8 + 7 - 6 + 5 - 4 + 3 - 2 + 1 =

61. If Molly's hens lay 7 eggs per day, how many dozen eggs do they lay in 8 days? Hint: 1 dozen = 12)

62. Eight years ago, I was 10 years old. Six years from now, I will be _____ years old.

63. Eight years ago, I was 7 years old. Six years from now, I will be _____ years old.

64. If I have five dozen and five pens, then I have _____ pens.

65. 8 dimes and 4 nickels = _____ quarters

66. 2 dollars + 2 quarters + 20 pennies = 1 dollar + ____ dimes

67. What is three fourths of 48?

68. A rectangle has a 10 inch width and a 50 inch perimeter. What is its area?

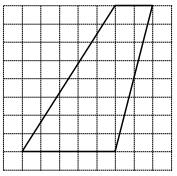
69. 20 nickels = _____ dimes

70. Which symbol (<, >, or =) should be used in each box below?
A) 6,000 ☐ 200 × 30
B) 320 ☐ 80 × 40
C) 800 × 7 ☐ 70 × 80

71. I am a quadrilateral, any my two neighbor sides are in the same length. What shape am I?

Answer Key

1. 100,000
2. 3,200
3. 2,400
4. 28,000
5. 24,000
6. 280,000
7. 10,000
8. 3,600
9. 10,000
10. 28,000
11. 105
12. 0.42
13. 0.0126
14. 25.6
15. 70
16. 75
17. 0.0112
18. 336
19. 30
20. 36
21. 3.84
22. 0.32
23. 24
24. 48
25. 32
26. 10.5
27. 0.04
28. 0.18
29. 96
30. 7
31. $4\overline{)23}$ or 23 ÷ 4 = 5.75
    So, we have $\frac{23}{4} = 5.75$
32. $0.4 = \frac{4}{10} \xrightarrow{reduce} \frac{2}{5}$
33. $1\frac{1}{4}$
34. $\frac{3}{6} = 0.5$
35. $0.2 = \frac{1}{5}$
36. $\frac{1}{10} = 0.1$
37. $0.4 = \frac{2}{5}$
38. $\frac{3}{4} = 0.75$
39. $0.5 = \frac{1}{2}$
40. $\frac{2}{5} = 5\overline{)2.0} = 0.4$
41. $\frac{35}{100} = \frac{7}{20}$
42. $\frac{1}{4} = 0.25$
43. $0.6 = \frac{6}{10} = \frac{3}{5}$
44. 0.125
45. $0.8 = \frac{4}{5}$
46. $\frac{16}{20} = 0.8$
47. $0.25 = \frac{25}{100} = \frac{1}{4}$
48. $\frac{6}{30} = 0.2$
49. $0.75 = \frac{3}{4}$
50. $2\frac{1}{8}$
51. $5^4 = 625$
52. $2^5 = 32$
53. $3^3 = 27$
54. $(\frac{1}{2})^4 = \frac{1}{16}$
55. $7^{\frac{1+4}{8}} = 7^{\frac{5}{8}}$
56. top = 2
    base = 5
    height = 8
    area = $\frac{1}{2}(2+5)(8)$ = 28



57. 20 - 5 = 15
    20 + 15 = 35
58. 34 + 8 = 42
    42÷3 = 14
59. 100 + 8×(16 - 10) = 148 cm
60. (9 - 8) + (7 - 6) + (5 - 4) + (3 - 2) + 1 = 5
61. 7×8 = 56
    56÷12 = $4\frac{2}{3}$ dozen
62. 10 + 8 = 18
    18+6 = 24 (yrs old)
63. 8 + 7 + 6 = 21
64. 65

65. 4

66. 10 + 5 + 2 = 17

67. $48 \times \frac{3}{4} = \boxed{36}$

68. 50÷2 = 25
    25-10 = 15 (length)
    15×10 = $\boxed{150\ (in^2)}$

69. 10

70. (A) =
    B) <
    C) =

71. rhombus