



Pretest for Mathsquad Program

Name: _____

Step 1: ★ Start a timer ★ Complete the 90 times tables questions ★ Stop the timer ★ Record your time

- | | | | | |
|---------------------|----------------------|----------------------|----------------------|----------------------|
| 1. $5 \times 6 =$ | 19. $10 \times 5 =$ | 37. $1 \times 10 =$ | 55. $9 \times 9 =$ | 73. $7 \times 3 =$ |
| 2. $4 \times 8 =$ | 20. $4 \times 11 =$ | 38. $10 \times 2 =$ | 56. $10 \times 7 =$ | 74. $9 \times 12 =$ |
| 3. $6 \times 3 =$ | 21. $10 \times 4 =$ | 39. $8 \times 9 =$ | 57. $4 \times 6 =$ | 75. $12 \times 2 =$ |
| 4. $5 \times 3 =$ | 22. $1 \times 6 =$ | 40. $7 \times 12 =$ | 58. $2 \times 7 =$ | 76. $10 \times 6 =$ |
| 5. $11 \times 5 =$ | 23. $4 \times 9 =$ | 41. $4 \times 2 =$ | 59. $6 \times 12 =$ | 77. $11 \times 6 =$ |
| 6. $8 \times 3 =$ | 24. $5 \times 9 =$ | 42. $0 \times 9 =$ | 60. $2 \times 0 =$ | 78. $8 \times 7 =$ |
| 7. $0 \times 4 =$ | 25. $2 \times 1 =$ | 43. $4 \times 3 =$ | 61. $0 \times 3 =$ | 79. $9 \times 3 =$ |
| 8. $9 \times 2 =$ | 26. $10 \times 10 =$ | 44. $12 \times 4 =$ | 62. $12 \times 10 =$ | 80. $11 \times 12 =$ |
| 9. $8 \times 2 =$ | 27. $0 \times 10 =$ | 45. $5 \times 1 =$ | 63. $6 \times 8 =$ | 81. $9 \times 6 =$ |
| 10. $1 \times 1 =$ | 28. $12 \times 8 =$ | 46. $6 \times 6 =$ | 64. $3 \times 1 =$ | 82. $11 \times 8 =$ |
| 11. $2 \times 2 =$ | 29. $6 \times 0 =$ | 47. $4 \times 5 =$ | 65. $1 \times 8 =$ | 83. $1 \times 11 =$ |
| 12. $0 \times 5 =$ | 30. $11 \times 10 =$ | 48. $2 \times 6 =$ | 66. $5 \times 12 =$ | 84. $5 \times 5 =$ |
| 13. $4 \times 1 =$ | 31. $10 \times 3 =$ | 49. $12 \times 12 =$ | 67. $7 \times 9 =$ | 85. $4 \times 4 =$ |
| 14. $0 \times 12 =$ | 32. $3 \times 3 =$ | 50. $12 \times 3 =$ | 68. $2 \times 11 =$ | 86. $0 \times 7 =$ |
| 15. $1 \times 0 =$ | 33. $1 \times 12 =$ | 51. $8 \times 8 =$ | 69. $9 \times 1 =$ | 87. $11 \times 0 =$ |
| 16. $6 \times 7 =$ | 34. $9 \times 10 =$ | 52. $11 \times 7 =$ | 70. $3 \times 11 =$ | 88. $7 \times 7 =$ |
| 17. $10 \times 8 =$ | 35. $2 \times 5 =$ | 53. $7 \times 5 =$ | 71. $1 \times 7 =$ | 89. $8 \times 0 =$ |
| 18. $2 \times 3 =$ | 36. $7 \times 4 =$ | 54. $11 \times 11 =$ | 72. $5 \times 8 =$ | 90. $11 \times 9 =$ |

Score: _____

Time: _____

Step 2: ★ Complete the 21 skills questions with your best effort ★ Include working out when you see the  symbol

1. Fill in the boxes to make each equation true

a. $0 + \square = 5$

b. $0 + \square = 10$

c. $0 + \square = 2$

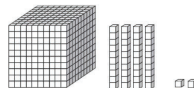
2. a. $7 + 2 =$


b. $6 + 6 =$

c. $59 + 6 =$

d. $57 + 37 =$

3. What number is shown below? Use digits then words




4.  $2743 + 3048$

5. a. $3 - 0 =$

b. $16 - 9 =$

c. $32 - 27 =$

d. $74 - 50 =$


6.  $1524 - 631$


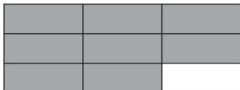





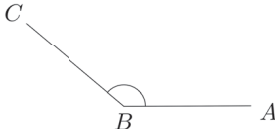

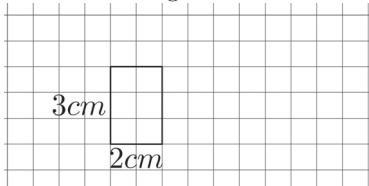

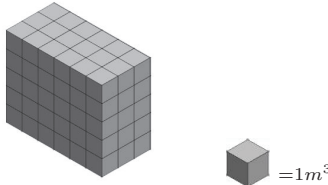
7. a. $0 \times 7 =$

b. $3 \times 11 =$


c. $3 \times 3 =$












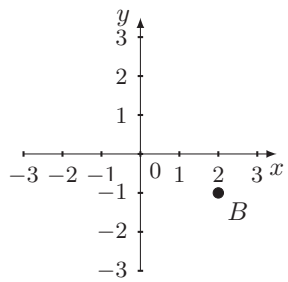
d. $8 \times 12 =$


8.  3×982


9. a. $10 \div 5 =$ b. $33 \div 3 =$ c. $33 \div 11 =$ d. $85 \div 7 =$ rem.	10.  $8272 \div 8$	11. Fill in the boxes to make each equation true a. $2 \times \square = 56$ b. $3 \times \square = 93$ c. $5 \times \square = 85$	12. a. List the factors of 35 b. List the first 7 positive multiples of 12
13. What fraction is represented in the diagram below? 	14.  Calculate $\frac{3}{6} + \frac{2}{6}$. Illustrate your calculation using the rectangle below. $\frac{3}{6} + \frac{2}{6} =$ 	15.  Calculate the following. Illustrate your calculations using the rectangle below. a. $\frac{1}{10}$ of 40 = b. $\frac{7}{10}$ of 40 = 	16. Fill in the box to create an equivalent fraction $\frac{2}{7} = \frac{\square}{84}$
17. Write the following as a simplified fraction $\frac{18}{63} =$	18.  Calculate $\frac{3}{30} + \frac{4}{6}$. Please give your answer in simplified form.	19. a. Circle the word that classifies $\angle ABC$ below:  straight right acute obtuse b. Estimate the size of angle ABC . $\angle ABC \approx$	20.  Determine the perimeter and area of the rectangle below.  $P =$ $A =$
21.  Calculate the volume of the shape below.  $V =$			

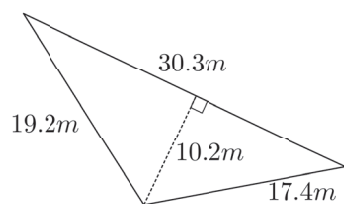
Step 3 : ★ Complete these 23 questions

★ Do not use a calculator ★ Include working out when you see the  symbol ★ Simplify all fractional answers

1. Calculate a. $-5 - 1 =$ b. $-2 - 5 =$	2. Calculate a. $-3 + -5 =$ b. $-4 + -4 =$	3. Calculate a. $1^3 =$ b. $\sqrt{49} =$	4.  Calculate $16 \div 4 \times 2$						
5. Circle any words that describe the number 62. even square mult. of 5	6. Write 42 as a product of powers of prime numbers.	7. a. Find the HCF of 6 and 12. b. Find the LCM of 7 and 21.	8. Fill in the boxes to make each equation true. a. $10 = \frac{\boxed{}}{5}$ b. $2\frac{4}{5} = \frac{\boxed{}}{5}$ c. $1\frac{\boxed{}}{5} = \frac{6}{5}$						
9.  $\frac{1}{3} + \frac{5}{8}$	10. $\frac{6}{8} \times \frac{2}{3}$	11.  $\frac{2}{7} \div \frac{4}{6}$	12.  $3\frac{2}{7} + 1\frac{6}{7}$						
13. a. What is the place value of the 9 in 0.3692? b. Round 0.5896 to 3 decimal places (3 dp.)	14. Insert $<$, $=$ or $>$ between the decimals and, if possible, circle the biggest. 17.353 17.35	15. a. $8070 \div 10 =$ b. $5 \times 10 =$ c. $7.1 \times 100 =$	16. Complete the table below <table border="1" data-bbox="1161 1102 1482 1180"><tr><td>P</td><td>F</td><td>D</td></tr><tr><td>92%</td><td></td><td></td></tr></table>	P	F	D	92%		
P	F	D							
92%									
17.  $0.7 + 4.98$	18.  4.58×0.06	19.  $0.2394 \div 0.06$	20.  Calculate 6% of 94						
21. a.  Substitute $x = 9$ into $x - 5$ and evaluate. b.  Substitute $x = 48$ into $\frac{x}{6}$ and evaluate.	22.  Solve the equations below and include working that shows your use of an opposite operation. a. $x - 3 = 6$ b. $\frac{x}{6} = 7$	23. Plot the point $A = (2, -2)$ below and state the coordinates of point B.  $B = (,)$							

Step 4: ★ Complete these 5 questions ★ You may use a calculator ★ Include working out when you see the  symbol

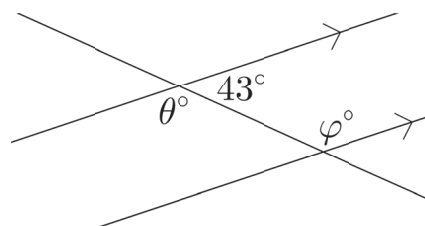
24.  Calculate the perimeter and area of the shape below. Give your answers to the nearest whole number.



$P =$

$A =$


25. Consider the diagram below.

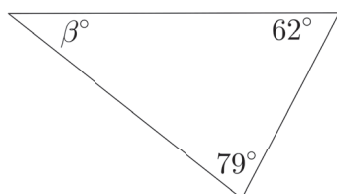


a. State the size of the unknown angles.

$\theta^\circ =$ $\varphi^\circ =$

b. What is the relationship between θ and φ ?

26. a.  What is the size of angle β ?




b. Which word(s) classifies the triangle?

scalene right isosceles equilateral

27. A bag contains 9 balls numbered 1 to 9. A ball is randomly selected.

a. What is the sample space?

b. What is the probability of selecting a ball with an odd number?

28.  Calculate the following statistics for the below data set

0, 2, 9, 3, 2, 1

a. median =

b. mean to 1 dp. \approx

c. mode =

d. range =