

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

- |                        |                          |                          |                          |                          |
|------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 1. $5 \times 6 = 30$   | 19. $10 \times 5 = 50$   | 37. $1 \times 10 = 10$   | 55. $9 \times 9 = 81$    | 73. $7 \times 3 = 21$    |
| 2. $4 \times 8 = 32$   | 20. $4 \times 11 = 44$   | 38. $10 \times 2 = 20$   | 56. $10 \times 7 = 70$   | 74. $9 \times 12 = 108$  |
| 3. $6 \times 3 = 18$   | 21. $10 \times 4 = 40$   | 39. $8 \times 9 = 72$    | 57. $4 \times 6 = 24$    | 75. $12 \times 2 = 24$   |
| 4. $5 \times 3 = 15$   | 22. $1 \times 6 = 6$     | 40. $7 \times 12 = 84$   | 58. $2 \times 7 = 14$    | 76. $10 \times 6 = 60$   |
| 5. $11 \times 5 = 55$  | 23. $4 \times 9 = 36$    | 41. $4 \times 2 = 8$     | 59. $6 \times 12 = 72$   | 77. $11 \times 6 = 66$   |
| 6. $8 \times 3 = 24$   | 24. $5 \times 9 = 45$    | 42. $0 \times 9 = 0$     | 60. $2 \times 0 = 0$     | 78. $8 \times 7 = 56$    |
| 7. $0 \times 4 = 0$    | 25. $2 \times 1 = 2$     | 43. $4 \times 3 = 12$    | 61. $0 \times 3 = 0$     | 79. $9 \times 3 = 27$    |
| 8. $9 \times 2 = 18$   | 26. $10 \times 10 = 100$ | 44. $12 \times 4 = 48$   | 62. $12 \times 10 = 120$ | 80. $11 \times 12 = 132$ |
| 9. $8 \times 2 = 16$   | 27. $0 \times 10 = 0$    | 45. $5 \times 1 = 5$     | 63. $6 \times 8 = 48$    | 81. $9 \times 6 = 54$    |
| 10. $1 \times 1 = 1$   | 28. $12 \times 8 = 96$   | 46. $6 \times 6 = 36$    | 64. $3 \times 1 = 3$     | 82. $11 \times 8 = 88$   |
| 11. $2 \times 2 = 4$   | 29. $6 \times 0 = 0$     | 47. $4 \times 5 = 20$    | 65. $1 \times 8 = 8$     | 83. $1 \times 11 = 11$   |
| 12. $0 \times 5 = 0$   | 30. $11 \times 10 = 110$ | 48. $2 \times 6 = 12$    | 66. $5 \times 12 = 60$   | 84. $5 \times 5 = 25$    |
| 13. $4 \times 1 = 4$   | 31. $10 \times 3 = 30$   | 49. $12 \times 12 = 144$ | 67. $7 \times 9 = 63$    | 85. $4 \times 4 = 16$    |
| 14. $0 \times 12 = 0$  | 32. $3 \times 3 = 9$     | 50. $12 \times 3 = 36$   | 68. $2 \times 11 = 22$   | 86. $0 \times 7 = 0$     |
| 15. $1 \times 0 = 0$   | 33. $1 \times 12 = 12$   | 51. $8 \times 8 = 64$    | 69. $9 \times 1 = 9$     | 87. $11 \times 0 = 0$    |
| 16. $6 \times 7 = 42$  | 34. $9 \times 10 = 90$   | 52. $11 \times 7 = 77$   | 70. $3 \times 11 = 33$   | 88. $7 \times 7 = 49$    |
| 17. $10 \times 8 = 80$ | 35. $2 \times 5 = 10$    | 53. $7 \times 5 = 35$    | 71. $1 \times 7 = 7$     | 89. $8 \times 0 = 0$     |
| 18. $2 \times 3 = 6$   | 36. $7 \times 4 = 28$    | 54. $11 \times 11 = 121$ | 72. $5 \times 8 = 40$    | 90. $11 \times 9 = 99$   |

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.  $0 + \boxed{5} = 5$

b.  $0 + \boxed{10} = 10$

c.  $0 + \boxed{2} = 2$

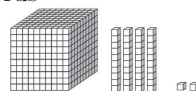
2. a.  $7 + 2 = 9$

b.  $6 + 6 = 12$


c.  $59 + 6 = 65$

d.  $57 + 37 = 94$

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



**1042, one thousand and forty two**

4.   $2743 + 3048$


**5791**

5. a.  $3 - 0 = 3$

b.  $16 - 9 = 7$

c.  $32 - 27 = 5$

d.  $74 - 50 = 24$

6.   $1524 - 631$


**893**

7. a.  $0 \times 7 = 0$


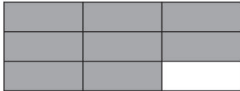





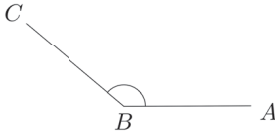

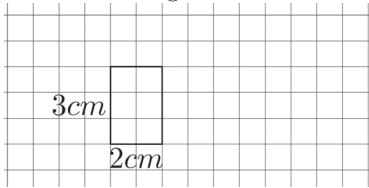

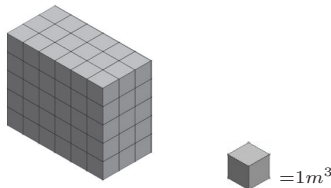
b.  $3 \times 11 = 33$

c.  $3 \times 3 = 9$


d.  $8 \times 12 = 96$












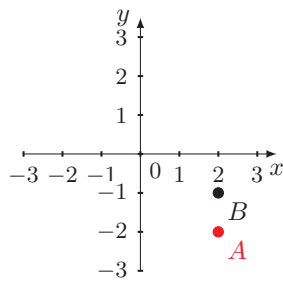
8.   $3 \times 982$


**2946**


9. a. $10 \div 5 = \mathbf{2}$  b. $33 \div 3 = \mathbf{11}$  c. $33 \div 11 = \mathbf{3}$  d. $85 \div 7 = \mathbf{12}$ rem. $\mathbf{1}$	10.  $8272 \div 8$  $\mathbf{1034}$	11. Fill in the boxes to make each equation true a. $2 \times \boxed{\mathbf{28}} = 56$  b. $3 \times \boxed{\mathbf{31}} = 93$  c. $5 \times \boxed{\mathbf{17}} = 85$	12. a. List the factors of 35  $\mathbf{1, 35, 5, 7}$  b. List the first 7 positive multiples of 12  $\mathbf{12, 24, 36, 48, 60, 72, 84}$
13. What fraction is represented in the diagram below?    $\mathbf{\frac{8}{9}}$	14.  Calculate $\frac{3}{6} + \frac{2}{6}$ . Illustrate your calculation using the rectangle below.  $\frac{3}{6} + \frac{2}{6} = \mathbf{\frac{5}{6}}$  	15.  Calculate the following. Illustrate your calculations using the rectangle below.  a. $\frac{1}{10}$ of 40 = $\mathbf{4}$ b. $\frac{7}{10}$ of 40 = $\mathbf{28}$  	
16. Fill in the box to create an equivalent fraction  $\frac{2}{7} = \frac{\boxed{\mathbf{24}}}{84}$	17. Write the following as a simplified fraction  $\frac{18}{63} = \mathbf{\frac{2}{7}}$	18.  Calculate $\frac{3}{30} + \frac{4}{6}$ . Please give your answer in simplified form.  $\mathbf{\frac{23}{30}}$	
19. a. Circle the word that classifies $\angle ABC$ below: $\mathbf{obtuse}$    straight    right    acute    obtuse b. Estimate the size of angle $ABC$ .  $\angle ABC \approx \mathbf{139 \pm 10^\circ}$	20.  Determine the perimeter and area of the rectangle below.    $P = \mathbf{3 + 2 + 3 + 2 = 10cm}$ $A = \mathbf{3 \times 2 = 6cm^2}$	21.  Calculate the volume of the shape below.    $V = \mathbf{6 \times 3 \times 5 = 90m^3}$	

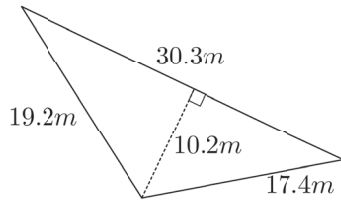
**Step 3: ★ Complete these 23 questions**

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

1. Calculate a. $-5 - 1 = -6$  b. $-2 - 5 = -7$	2. Calculate a. $-3 + -5 = -8$  b. $-4 + -4 = -8$	3. Calculate a. $1^3 = 1$  b. $\sqrt{49} = 7$	4.  Calculate $16 \div 4 \times 2$  <b>8</b>						
5. Circle any words that describe the number 62.  even square mult. of 5 <b>even,</b>	6. Write 42 as a product of powers of prime numbers.  <b><math>2 \times 3 \times 7</math></b>	7. a. Find the HCF of 6 and 12. <b>6</b>  b. Find the LCM of 7 and 21. <b>21</b>	8. Fill in the boxes to make each equation true. a. $10 = \frac{\boxed{50}}{5}$  b. $2\frac{4}{5} = \frac{\boxed{14}}{5}$  c. $1\frac{\boxed{1}}{5} = \frac{6}{5}$						
9.  $\frac{1}{3} + \frac{5}{8}$  <b><math>\frac{23}{24}</math></b>	10. $\frac{6}{8} \times \frac{2}{3}$  <b><math>\frac{1}{2}</math></b>	11.  $\frac{2}{7} \div \frac{4}{6}$  <b><math>\frac{3}{7}</math></b>	12.  $3\frac{2}{7} + 1\frac{6}{7}$  <b><math>5\frac{1}{7}</math> or <math>\frac{36}{7}</math></b>						
13. a. What is the place value of the 9 in 0.3692? <b>Thousandths</b>  b. Round 0.5896 to 3 decimal places (3 dp.) <b>0.590</b>	14. Insert $<$ , $=$ or $>$ between the decimals and, if possible, circle the biggest.  $17.353 > 17.35$  <b>17.353 is biggest</b>	15. a. $8070 \div 10 = 807$  b. $5 \times 10 = 50$  c. $7.1 \times 100 = 710$	16. Complete the table below <table border="1" data-bbox="1158 1102 1482 1180"><tr><td>P</td><td>F</td><td>D</td></tr><tr><td>92%</td><td><b><math>\frac{23}{25}</math></b></td><td><b>0.92</b></td></tr></table>	P	F	D	92%	<b><math>\frac{23}{25}</math></b>	<b>0.92</b>
P	F	D							
92%	<b><math>\frac{23}{25}</math></b>	<b>0.92</b>							
17.  $0.7 + 4.98$  <b>5.68</b>	18.  $4.58 \times 0.06$  <b>0.2748</b>	19.  $0.2394 \div 0.06$  <b>3.99</b>	20.  Calculate 6% of 94  <b>5.64</b>						
21. a.  Substitute $x = 9$ into $x - 5$ and evaluate.  <b><math>9 - 5 = 4</math></b>  b.  Substitute $x = 48$ into $\frac{x}{6}$ and evaluate.  <b><math>\frac{48}{6} = 8</math></b>	22.  Solve the equations below and include working that shows your use of an opposite operation. a. <div style="display: inline-block; vertical-align: middle;"><b>+3</b>   <math>x - 3 = 6</math> <b><math>x = 9</math></b></div> b. <div style="display: inline-block; vertical-align: middle;"><b><math>\times 6</math></b>   <math>\frac{x}{6} = 7</math> <b><math>x = 42</math></b></div>		23. Plot the point $A = (2, -2)$ below and state the coordinates of point B.  <b><math>B = (2, -1)</math></b>						

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

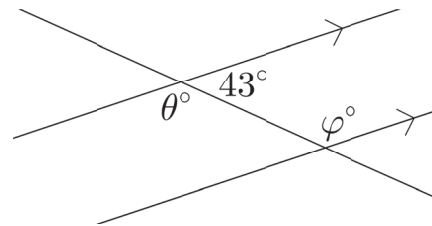
24.  Calculate the perimeter and area of the shape below. Give your answers to the nearest whole number.



$$P = 30.3 + 17.4 + 19.2 \approx 67 \text{ m}$$

$$A = 0.5 \times 30.3 \times 10.2 \approx 155 \text{ m}^2$$

25. Consider the diagram below.

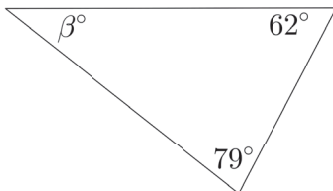


a. State the size of the unknown angles.

$$\theta^\circ = 137 \quad \varphi^\circ = 137$$

b. What is the relationship between  $\theta$  and  $\varphi$ ?  
**alternate**

26. a.  What is the size of angle  $\beta$ ?



$$\beta = 180 - 62 - 79 = 39$$

b. Which word(s) classifies the triangle?

scalene right isosceles equilateral  
**scalene**


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

a. What is the sample space?

$$\{1, 2, 3, 4, 5, 6, 7, 8, 9\}$$

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

$$\frac{5}{9}$$

28.  Calculate the following statistics for the below data set

$$0, 2, 9, 3, 2, 1$$

a. median = **2**

b. mean to 1 dp.  $\approx$  **2.8**

c. mode = **2**

d. range = **9 - 0 = 9**