YEAR 7 BASIC ASSESSMENT

MATHS & LEARNING EXCELLENCE PTY LTD

1. Put a tick in the boxes that describe the numbers:

	Number	Natural	Integer	Rational	Irrational
a)	98				
b)	$\frac{3}{4}$				
c)	−18.521				
d)	π				

2. $3-(2-7)\times 2 =$ ☐ **3.** $(5-8)\times(6-9) =$ ☐ **4.** $-3(4+2)\times 4(1-5)+6 =$ ☐

5. Express the ratio of length VW to the length of VX in its simplest form.

☐

6. Solve the equations:

a). $2b + 3 = 6$ ☐

b) $3c - 2 + 1 = 5$ ☐

c) $9f + 3 = -6$ ☐

d) $3b - 6 = 2b + 4$ ☐

7. Use index notation to simplify:

a) $n \times n \times n \times n =$ ☐

b) $a^2 \times a^3 =$ ☐

c) $2ab \times a^2 \times b^2 =$ ☐

8. Simplify these fractions:

a) $2\frac{4}{5} \div 3\frac{1}{5} =$ ☐

b) $\frac{8ab}{2a} =$ ☐

c) $\frac{14b^2df^3}{2bd^2f} =$ ☐

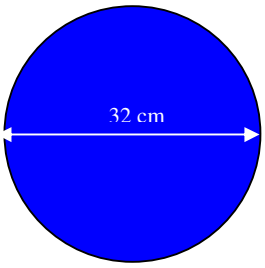
9. Find the value of:

a) $3.7 \times 0.09 =$ ☐

b) $0.0554 \times 11.3 =$ ☐

c) $4.88 \div 1.22 =$ ☐

10.



a) What is the circumference of this circle? ☐

b) What is the area of this circle? ☐

11. Substitute the numbers on the left for *h* and write the answers on the right.