Number 3F Assessment

Foundation Level 1 - 26 27 - 29







Clip	Grade	Title of clip	Question(s)	Marked out of	Score	%
78	3	Product of Primes	1	2		
79	3	. Highest Common Factor (HCF)	2	2		
80	3	Lowest Common Multiple (LCM)	3 - 4	4		
81	3	Squares, Cubes and Roots	5	1		
82	3	Working with Indices	6	1		
83	3	Standard Form	7 - 9	10		
84	3	Decimals and Fractions	10 - 11	3		
85	3	Fractions, Percentages, Decimals	12	2		
86	3	Percentage of an Amount (Calc.)	27	1		
87	3	Percentage of an Amount (Non-Calc.)	13	2		
88	3	Change to a Percentage (Calc.)	28	2		
89	3	Change to a Percentage (Non-Calc.)	14	2		
90	3	Rounding to Significant Figures	15 - 16	3		
91	3	Estimating Answers	17	2		
92	3	Using Place Value	18	3		
131	4	Index Notation	19 - 20	6		
132	4	Introduction to Bounds	21, 29	4		
154	5	Negative Indices	22 - 23	5		
155	5	Error Intervals	24	2		
156	5	Mathematical Reasoning	25 - 26	3		

Out of 60	TOTAL	
Out of oo	SCORE	

Final % Percentage

	b) 2.3 × 10 ⁻⁴	2	
9)	Work out $(1.8 \times 10^5) \div (9 \times 10^2)$		
	Give your answer in standard form.		2

10) Change 0.64 to a fraction, giving your answer in its simplest form. _____

11) Change $\frac{5}{8}$ to a decimal. ______ 2

12) Write these numbers in order of size, smallest to largest. $52\% \frac{4}{5} = 0.47 \frac{4}{10} = 60\%$

1) Express 2100 as the product of its prime factors.

2) Find the highest common factor of 40 and 72.

The first buses to Y and Z leave a bus station at 7 am.

Work out the value of $5^2 + \sqrt[3]{27}$ _____ 1

Buses to Y leave every 25 minutes. Buses to Z leave every 20 minutes.

Write the following in standard form

a) 471000000 _____

b) 0.0000083 _____

Write the following as normal numbers

a) 7.6×10^5

3) Find the lowest common multiple of 12 and 15. _______

When will buses to Y and Z next leave at the same time?

Work out the value of $2^3 + 3^4 + 10^5$ _____

13) Find 35% of £80 _____

14) Mandy scored 30 out of 80 in a test.

What was her score as a percentage? _______

15) $236 \times 148 = 34928$

a) Round this answer to 2 significant figures. _____

16) $64 \div 238 = 0.268907563...$

Round this answer to 2 significant figures.

17) Estimate the answer to

18) Using the information that $6.8 \times 24 = 163.2$, write down the value of

- a) 680×24
- b) 68 × 0.24
- c) 16.32 ÷ 68 _____

19) Simplify the following, leaving your answers in index form.

a)
$$3^4 \times 3^5 \times 3 =$$
 _____ 1 b) $\frac{5^7 \times 5^2}{5 \times 5^4} =$ ____ 2 c) $(2^4)^3 =$ ____ 2

What is the value of 8° ? 20)

21) The length of a rectangle is 15.6 cm correct to 1 decimal place. The width of a rectangle is 3.8 cm correct to 1 decimal place.

15.6 cm

3.8 cm

Calculate the lower bound for the perimeter of the rectangle.

2

- 22) Find the value of
 - a) 6⁻² ______1
 - b) $3^{-3} \times 10^{-2}$
- 23) Write these numbers in order of size, starting with the smallest.

$$2^{-2}$$
 0.2 2^{0} 2^{-1} 2^{3} -2

24) A number, x, rounded to 2 significant figures is 260.

Write down the error interval for x.

25) Ethan says,

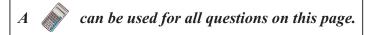
"Squaring a number always results in an even number."

Write an example to show that he is not correct.

26) A is an even number.

B is an odd number.

Explain why A + B + 1 is always an even number.



27)	Work out 72% of £483					
28)	Change 46 out of 73 to a percentage.					
	Give your answer correct to 1 decimal place2					
29)	The length of a rectangle is 15.6 cm correct to 1 decimal place. The width of a rectangle is 3.8 cm correct to 1 decimal place.					
	15.6 cm					
	3.8 cm					
	Calculate the upper bound for the area of the rectangle.					

© MathsWatch Number 3F Assessment Page 4