

TEACHER'S NAME: NAME: Class: **2.1 SIGNIFICANT FIGURES**

Instructions: Write answers in the spaces provided.

1. Round off 46 360 correct to 3 significant figures.
2. Round off 0.03493 correct to 2 significant figures.
3. Find the value of $43.2 \times 0.6 + 7.36$ correct to 3 significant figures
4. Find the value of $85 \div 1.7 - 3.086$ correct to 3 significant figures

2.2 STANDARD FORM

5. Write the number below in standard form. (Instructions: Choose 1 answer)

Numbers	Standard Form
29 000	2.9×10^4 or 2.9×10^{-4}
173 000	1.73×10^{-5} or 1.73×10^5
0.3075	3.075×10^{-1} or 3.075×10^1
0.000009	9.0×10^{-6} or 9.0×10^6

6. Write the following as a single numbers.
(Instructions : Write the answers)

Nombor	Bentuk piawai
9.5×10^4	
3.62×10^3	
1.83×10^{-2}	
7.046×10^{-4}	

7. Find the value of $5.2 \times 10^3 \times 4.8 \times 10^{-5}$ and give answers in standard form.
(Choose answer)

$$2.496 \times 10^{-1}$$

or

$$2.496 \times 10^{-3}$$

8. Find the value of $\frac{3.2 \times 10^2}{4 \times 10^{-3}}$ and give answers in standard form. (Choose answer)

$$8.0 \times 10^5$$

or

$$8.0 \times 10^4$$

9. Find the value of $9.6 \times 10^4 + 18000$ and give answers in standard form.
(Choose answer)

$$1.14 \times 10^5$$

or

$$1.14 \times 10^7$$

10. Find the value of $(0.9 \times 10^{-4})^2$ and give answers in standard form. (Choose answer)

$$8.1 \times 10^{-9}$$

or

$$8.1 \times 10^8$$

11. Find the value of $10^{-4} - 4.4 \times 10^{-5}$ and give answers in standard form.
(Choose answers)

$$5.6 \times 10^6$$

or

$$5.6 \times 10^{-5}$$

12. Find the value of $\frac{6500}{1.3 \times 10^5}$ and give answers in standard form. (Choose answers)

$$5.0 \times 10^{-2}$$

or

$$5.0 \times 10^3$$

13. Solve the following problems. Given $\sqrt{11} = 3.32$ (3 s.f)

Find the value of the following correct to 3 significant figures.

(Write answers in the spaces provided)

(a) $\sqrt{539}$

(b) $\sqrt{1331}$

14. Calculate the value of $\frac{15.9 + 0.21}{1.88 - 0.38}$ correct to 2 significant figures. (Choose 1 answer)

10

11

12

13

15. Find the value of $\sqrt{3 \times 10^{-5}} \times \sqrt{27 \times 10^{-3}}$ in standard form. (Choose 1 answer)

8.4×10^6

6.9×10^5

7.2×10^{-5}

9×10^{-4}

16. Convert 36 cm to km and give answer in standard form. (Choose 1 answer)

$3.6 \times 10^{-4} \text{ km}$

$4.2 \times 10^{-3} \text{ km}$

$5.1 \times 10^4 \text{ km}$

$6.3 \times 10^3 \text{ km}$