

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	$2.9 \times 10^4$ or $2.9 \times 10^{-4}$
173 000	$1.73 \times 10^{-5}$ or $1.73 \times 10^5$
0.3075	$3.075 \times 10^{-1}$ or $3.075 \times 10^1$
0.000009	$9.0 \times 10^{-6}$ or $9.0 \times 10^6$

6. Write the following as a single numbers.

(Instructions : Write the answers)

Nombor	Bentuk piawai
$9.5 \times 10^4$	<input type="text"/>
$3.62 \times 10^3$	<input type="text"/>
$1.83 \times 10^{-2}$	<input type="text"/>
$7.046 \times 10^{-4}$	<input type="text"/>

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)  $\sqrt{539}$

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(b)  $\sqrt{1331}$

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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)

$8.4 \times 10^6$

$6.9 \times 10^5$

$7.2 \times 10^{-5}$

$9 \times 10^{-4}$

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

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

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

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

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