MATHS

BOOKS - MAXIMUM PUBLICATION

MODEL PAPER 2

Example

1. Sum of two numbers is 25. The difference is 10. Find the numbers.

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2. Fill in the blanks.

$$\frac{1}{8} = \frac{1 \times 125}{8 \times \_} = \frac{125}{\_}$$

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3. 5 books and 3 pens cost 230 rupees. 10 books and 3 pens cost 430 rupees.

What is the cost of 5 books?

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4. 5 books and 3 pens cost 230 rupees. 10 books and 3 pens cost 430 rupees.

Find the cost of one pen.

5. 5 books and 3 pens cost 230 rupees. 10 books and 3 pens cost 430 rupees.

What is the cost of 4 books as 4 pens?

6. Find the decimale form of the following fractions.

$\frac{1}{5}$.

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7. Find the decimale form of the following fractions.

$\frac{1}{5} + \frac{1}{25}$.

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8. Draw $\triangle ABC$ with $AB - 7cm, \angle A = 60^o$, $\angle B = 65^o$.

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9. In a circle a chord of length 42 cm is 20 cm away from the centre.

Find the radius of the circle.

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10. In a circle a chord of length 42 cm is 20 cm away from the centre.

Find the length of chord which is 21 cm away from the centre.

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11. The quadrilateral $ABCD$. $AB = 7cm$. $AD = 5cm$, $BC = 5cm$. $\angle A = 60^o$, $\angle B = 110^o$. Draw a triangle having equal area to quadrilatered $ABCD$.

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12. Complete the following

$\sqrt{48}$=____ $\times \sqrt{3}$.

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13. Comolete the following

$(\sqrt{3} \times \sqrt{2}) + 5\sqrt{3}$=_____

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14. Complete the following

$\sqrt{2} \times 5\sqrt{3}$=_____

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15. Complete the following

$\frac{\sqrt{8}}{\sqrt{2}}$=____.

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16. In a two digit number, the sum of digits is 13. The number got by interchanging the

digits is 27 more than the first number. Considering the digit in tense place as x and once place as y find the number.

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17. Explain two ways to draw a line of length $\left(\sqrt{17}\right)$ cm.

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18. Cost of 3 pen and 4 pencils tpgethr is 52 rupees. Cost of 6 pen and 3 pencil is 84 rupees. So what is the cost of one pen and one pencil?

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19. The length of a rectangle is $\left(\sqrt{5}\right)$cm and breadth $\left(\sqrt{2}\right)$cm.

What is its perimeter?

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20. The length of a rectangle is $\left(\sqrt{5}\right)$cm and breadth $\left(\sqrt{2}\right)$cm.

Find the area.

[Find in cm $\sqrt{2}=1.14,\sqrt{5}=2.23$]

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21. What is the decimal form of `1/2?

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22. What is the decimal form of $\frac{1}{2^2}$?

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23. What is the decimal form of $1 + \frac{1}{2} + \frac{1}{2^2}$?

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24. $\frac{1}{2} + \frac{1}{2^2} + \frac{1}{2^3} = \frac{1}{2}[\_\_ + \_\_ + \_\_]$.

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25. Using this find the decimal form of

$$\frac{1}{2}+\frac{1}{2^2}+\frac{1}{2^3}+\frac{1}{2^4}.$$

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26. Change the fraction into decimal by making the denominator a power of 10.

$$\frac{1}{20}.$$

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27. Change the fraction into decimal by making the denominator a power of 10.

$$\frac{11}{125}$$

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28. Change the fraction into decimal by making the denominator a power of 10.

$$\frac{13}{80}.$$

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29. What is the length of one side of a equilateral triangle with height 3 cm.

Find the perimeter.

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30. What is the length of one side of a equilateral triangle with height 3 cm.

Find the area [Find in cm$\sqrt{3} = 1.73$].

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31. Second power of 2 is 2^2

3^{rd} power 2^3

The product of 2's 4^{th} power is 2's 6^{th} power.

$2^4 \times 2^2 = 2^{4+2} = 2^6$

like this

$\frac{2^4}{2^2} = 2^{4-2} = 2^2$

If we divide 2^{nd} power of 2 with 2^{nd} power of 2,

if a number is divided with the same number it

is one.

$\frac{2^2}{2^2} = 2^{2-2} = 2^0 = 1.$

Now answer the following question.

$3^2 \times 3^7$=_____

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32. Second power of 2 is 2^2

3^{rd} power 2^3

The product of 2's 4^{th} power is 2's 6^{th} power.

$2^4 \times 2^2 = 2^{4+2} = 2^6$

like this

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if a number is divided with the same number it

is one.

$$\frac{2^2}{2^2} = 2^{2-2} = 2^0 = 1.$$

Now answer the following question.

$a^m \times a^n$=_____.

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33. Second power of 2 is 2^2

3^{rd} power 2^3

The product of 2's 4^{th} power is 2's 6^{th} power.

$2^4 \times 2^2 = 2^{4+2} = 2^6$

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$$\frac{2^2}{2^2} = 2^{2-2} = 2^0 = 1.$$

Now answer the following question.

$\frac{10^6}{10^5}$=----.

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34. Second power of 2 is 2^2

3^{rd} power 2^3

The product of 2's 4^{th} power is 2's 6^{th} power.

$2^4 \times 2^2 = 2^{4+2} = 2^6$

like this

$$\frac{2^4}{2^2} = 2^{4-2} = 2^2$$

If we divide 2^{nd} power of 2 with 2^{nd} power of 2,

if a number is divided with the same number it

is one.

$$\frac{2^2}{2^2} = 2^{2-2} = 2^0 = 1.$$

Now answer the following question.

$\frac{a^m}{a^n}$=------.

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35. Second power of 2 is 2^2

3^{rd} power 2^3

The product of 2's 4^{th} power is 2's 6^{th} power.

$2^4 \times 2^2 = 2^{4+2} = 2^6$

like this

$$\frac{2^4}{2^2} = 2^{4-2} = 2^2$$

If we divide 2^{nd} power of 2 with 2^{nd} power of 2,

if a number is divided with the same number it

is one.

$$\frac{2^2}{2^2} = 2^{2-2} = 2^0 = 1.$$

Now answer the following question.

7^o=____.

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36. Second power of 2 is 2^2

3^{rd} power 2^3

The product of 2's 4^{th} power is 2's 6^{th} power.

$2^4 \times 2^2 = 2^{4+2} = 2^6$

like this

$$\frac{2^4}{2^2} = 2^{4-2} = 2^2$$

If we divide 2^{nd} power of 2 with 2^{nd} power of 2,

if a number is divided with the same number it

is one.

$$\frac{2^2}{2^2} = 2^{2-2} = 2^0 = 1.$$

Now answer the following question.

$$\frac{a^p \times a^q}{a^2}.$$

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