MATHS

BOOKS - V PUBLICATION

DECIMAL POINTS

Question Bank

1. Write the fractions below in decimal form:

(i) frac 3\20

(ii)frac 3\40

(iii) $\frac{13}{40}$

(iv) $\frac{7}{80}$

(v) $\frac{5}{16}$

2. Find the decimial form of the: sums below:

(i) $\frac{1}{5} + \frac{1}{25} + \frac{1}{125}$

(ii) $\frac{1}{5} + \frac{1}{5^2} + \frac{1}{5^3} + \frac{1}{5^4}$

(iii) $\frac{1}{2} + \frac{1}{2^2} + \frac{1}{2^3}$.

'(#VPU_HSS_MAT_IX_C02_E01_002_Q01##)'

3. A two digit number divided by another two digit. Number gives 5.875. What are the numbers?

4. Write the fractions below in decimal form:

(i) $\dfrac{1}{50}$ (ii) $\dfrac{5}{40}$ (iii) $\dfrac{13}{20}$

5. Find the decimal form of the sums below:

(i) $\dfrac{3}{8} + \dfrac{5}{16} + \dfrac{7}{32}$

(ii) $\dfrac{1}{5} + \dfrac{3}{25} + \dfrac{9}{125}$

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6. For each of the fractions below, find fractions with denominators power of 10 getting closer and closer to it and hence write its decimal form:

(i) $\dfrac{2}{3}$

(ii) $\dfrac{5}{6}$

(iii) $\dfrac{1}{9}$

7. i) Using algébra, explain why $\frac{1}{10}$, $\frac{11}{100}$, $\frac{111}{1000}$... of any number get closer and closer to $\frac{1}{9}$ of that number.

ii) Use the general principle got above to single digit numbers to find the decimal forms of $\frac{2}{9}$, $\frac{4}{9}$, $\frac{5}{9}$, $\frac{7}{9}$, $\frac{8}{9}$br>iii)

What can we say in general about decimal

forms with a single digit repeating?

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8. i) Find the decimal form of $\dfrac{1}{11}$

ii) Find the decimal forms 0f $\dfrac{2}{11}, \dfrac{3}{11}$

Iii) What is the decimat form of $\dfrac{10}{11}$?

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9. Write the results of the operations below as decimals:

1) 0.111...+0.222..

2) 0.333..+0.777..

3) 0.333 x 0.666

4) $(0.333)^2$

10. Write the decimal forms of the given fractions

(i) $\dfrac{1}{25}$ (ii) $\dfrac{1}{625}$ (iii) $\dfrac{3}{20}$ (iv) $\dfrac{4}{20}$

11. Find the which are powers of 10 getting closer and closer to $\dfrac{23}{11}$ and then write the decimal form

12. Alice's methad to find out the decimal formi of frac17\40 is gluen below.

$\frac{17}{40} = \frac{1}{10} \times \frac{170}{40}$

$\frac{17}{40} = \frac{1}{10} \times \frac{17}{4}$

$\frac{17}{40} = \frac{1}{10} \times (4\_1/4)$

$\frac{17}{40} = \frac{4}{10} + \frac{1}{40}$

$\frac{17}{40} = \frac{4}{10} + \frac{1}{100} \times \frac{100}{40}$ By eompleting the next line, write the 17decimal form of $\frac{17}{40}$.

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13. Santhi wrote the fractions frac 1/7,2/7,3/7 like this,

frac{1/7=0.142857142857

Frac2/7=0.285714285714

frac3/7=0.428571428571

a) By examining the decimal forms of given fractions, write the decimal form frac4/7, frac5\7

b) Write 3 fractions of denominators which are powers of 10 , getting closer and closer to frac 6/7

14. Write the fraction form of the given decimals.

(i) 0.404040 ...

(ii) 0.001001001...

iii) 0.12341234...

15. (a) Write the decimal form of 1/4

b) Write the decimal form of 7/10 + 3/100 +

16. a) Write the decimal form of $\dfrac{1}{3}$ and $\dfrac{1}{9}$

b) What is the decimal form of $(0.33333...)^2$

17. Write the decimal form of the following

fractions

a)3/25

b)1/8

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18. A page from Gopu's maths note book is given below.

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19. Write the decimal form of the following fractions:

a)3/8

b)12/5

20. Find the fractions of denominator which are powers of 10, getting closer and closer to

$$\frac{1}{7}$$

21. Following are the steps for writing the deccimal form of frac17/40

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22. Write the smallest form of $\dfrac{1}{8}$

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23. 3 hours 30 minutes is written as 330 . Is it the decimal form of 3 hours 30 minutes?

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24. Write the fraction form of the decimals

(i) 0.666...

(ii)7.111....

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25. Write the results of the operations below as decimals

i) $0.333....+0.555...$ ii) $(0.777...)^2$