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This programed mathematics textbook is for student use in vocational education courses. It was developed as part of a programed series covering 21 mathematical competencies which were identified by university researchers through task analysis of several occupational clusters. The development of a sequential content structure was also based on these mathematics competencies. After completion of this program the student should be able to change simple fractions into decimals by writing them as equivalent fractions with their denominator a power of 10 and fractions into decimals by dividing the numerator by the denominator. The material is to be used by individual students under teacher supervision. Twenty-six other programed texts and an introductory volume are available as VT 006 882-VT 006 909, and VT 006 975. (EM)

Occupational Mathematics

CONVERSION OF FRACTIONS INTO DECIMALS

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U.S. DEPARTMENT OF
HEALTH, EDUCATION AND WELFARE

Office of Education
Bureau of Research

Occupational Mathematics

CONVERSION OF FRACTIONS INTO DECIMALS

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OBJECTIVES

1. The student should be able to change simple fractions into decimals by writing them as equivalent fractions with their denominator a power of ten.

2. The student should be able to change fractions into decimals by dividing the numerator by the denominator.

Greetings! You are about to begin improving your knowledge
of basic mathematics. There are many important uses for the
mathematics you are learning.

This booklet is not like your ordinary books. It is designed
to help you learn as an individual. On the following pages
you will find some information about mathematics. After the
information is presented, you will be asked a question. Your
answers to these questions will determine how you proceed
through this booklet. When you have selected your answer
to the question, turn to the page you are told to.

Do not write in this booklet. You may wish to have a pencil
and some paper handy so you can write when you want to.

Remember this is not an ordinary book.

1. Study the material on the page.

2. Read the question on the page (you may want to
   restudy the material on the page).

3. Select the answer you believe is correct.

4. Turn to the page indicated by your answer.

Are you ready to begin?

(a) Yes   Turn to page 1

(b) No   Turn to page C

(c) HELP   Go see your teacher

Your answer was (b) No.

Well, this booklet is a little different.

Go back and read page B again. After you have read it,
you will probably be ready to begin.

You are probably aware that fractional parts of whole
numbers are often expressed in two ways: (1) fractions
and (2) decimals. It is often necessary to be able to
change a fraction to its equivalent decimal form.
This Unit will help you learn to do this.

See if you can work this problem:

What is the decimal value of 1/10?

No. Look at this way.

One easy way to convert fractions with 10, 100, 1,000 or 1 and any number of zeroes is simply to count the zeroes. Then you move the decimal point one position to the left for each zero.

Thus, 14/100 = .14   14/1000 = .014

236/1000 = .236   236/10000 = .0236

Here's another for you.

Convert 29/100 to a decimal.

Right: You located the numerator correctly in the tenths' position.

How do you write 7/10 as a decimal?

Ooops! You slipped up.

When expressing any fraction in hundredths, you must have two decimal places. Your answer did not have two.

See if you can do better this time.

What is the decimal equivalent of 97/100?

Incorrect.

You really should be able to work this type of
problem.

Go work Unit 8 before continuing this Unit.

You really need to know how to change fractions
with 10, 100, or 1000 into decimals before you
proceed.

Before continuing with this Unit, you need to work
Unit 8.   It will teach you to do this.

Correct! Very good.

Here is your next problem.

14/100 written in decimal form is:

Fine! Your last answer was correct.

What is 36/100 written as a decimal?

No. You should recall that in a decimal number the tenths place is the first position to the right of the decimal point.

$$\boxed{3}\ \boxed{2}\ \boxed{1}\ .\ \boxed{A}\ \boxed{B}\ \boxed{C}$$

In our model, the tenths are located in the block marked $\boxed{A}$. The numerator of 1/10 tells us we have one tenth, so 1/10 would be written as ".1".

How would you write 4/10 as a decimal?

Hold on here!

You said 14/100 is the same as 1.4. You only moved
the decimal point one place. You should have moved
it two places. Notice that your answer doesn't
really make much sense. Something greater than one
cannot equal something less than one.

What? How can 4/10 = 4? It can't. 4/10 is less
than one.

Were you just careless?
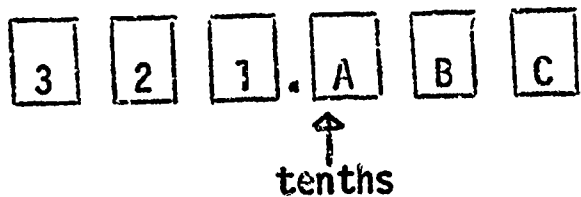
Go back to page 9 and make another selection.

Be careful! You said that 29/100 = 2.9.

Better go back to page 2 and try again.

Hold on now. You said that the number of tenths should be expressed in the second place to the right of the decimal point. Wrong! Tenths are found in the first place to the right of the decimal point.

| 3 | 2 | 1 |.| A | B | C |

↑
tenths

Remember this model. It should help you.

How would you write 9/10 as a decimal?

Hold it! 7/10 is a quantity less than one. Right?
O.K., then it is not possible for 7/10 to equal 7.

You'd better go back to page 3 and think a little
more this time.

Incorrect. You really should be able to work this
type of problem.

Go work Unit 8 before continuing this Unit.

Ooops. You slipped up.

When expressing any fraction in hundredths, you must
have two decimal places. Your answer did not have
two.

See if you can do better this time.

What is the decimal equivalent of 97/100?

No   You still don't get it.

There is an easy to convert a fraction with 10, 100, or less for its denominator to a decimal. You simply take the numera or and move the decimal one place to the left for each zero.

For example, 5/100 would be .05 (moved 2 places).
39/1000 would be .039.

What is the decimal equivalent of 8/100?

Fine!

Try this one.

The fraction 9/1000 can be expressed in decimal form as:

No. You still don't get it.

There is an easy way to convert a fraction with
10, 100, or 1000 for its denominator to a decimal.
You simply take the numerator and move the decimal
one place to the left for each zero.

For exaple, 5/100 would be .05 (moved 2 places).
39/1000 would be .039.

What is the decimal equivalent of 8/100?

Correct!

Try this one.

What is the decimal equivalent of 57/1000?

No. .18 is the same as 18/100.

Remember $._{\boxed{A}\ \boxed{B}\ \boxed{C}}$

   tenths hundredths thousandths

Come on now. It really isn't that bad.

Go to page 31 and try a little harder this time.

Ooops! Did you forget that thousandths have <u>three</u> decimal places?

What is 39/1000 expressed as a decimal?

No. When you want thousandths, there must be three decimal places. In $\boxed{A}$ $\boxed{B}$ $\boxed{C}$, the $\boxed{C}$ is in the thousandths place. So 9/1000 should be .009.

What is the decimal equivalent of 18/1000?

Come on now. It really isn't that hard.

Go to page 31 and try a little harder this time.

No.

When you want thousandths, there must be <u>three</u>
decimal places. In $\boxed{A}$ $\boxed{B}$ $\boxed{C}$, the $\boxed{C}$ is
in the thousandths' place. So 9/1000 should be
.009.

What is the decimal equivalent of 18/1000?

No.

Let's take a look at the model again. Which is the
hundredths position? ☐3☐ ☐2☐ ☐1☐ . ☐A☐ ☐B☐ ☐C☐
The ☐B☐ represents hundredths. So, since we had
2/100, you should have written .02.

Now, how do you express 5/100 as a decimal?

Come now. How can 6/100 = 6? You know better than
that.

Go back to page 29 and make a better selection.

.

Correct!

How would you write 6/100 as a decimal?

No.

Let's take a look at the model again. Which is the
hundredths position? $\boxed{3}$ $\boxed{2}$ $\boxed{1}$. $\boxed{A}$ $\boxed{B}$ $\boxed{C}$
The $\boxed{B}$ represents hundredths. So, since we had
2/100, you should have written .02.

Now, how do you express 5/100 as a decimal?

You are doing fine!

Try this one.

How would you express 2/100 as a decimal?

Page 32

Ooops. Did you forget that thousandths have <u>three</u>
decimal places?

What is 39/1000 expressed as a decimal?

No. You seem to be forgetting the rule. That is, just move the decimal point one place to the left for every zero in the denominator.

Express 149/10 as a decimal number.

Fine!

See if you can work this one.

How would you express 31975/1000 as an equivalent decimal number?

No.

You located the decimal point incorrectly.

Remember, for thousandths you should count off three decimal places.

What is 9817/1000 expressed as an equivalent decimal number?

You said that 419/100 = 419. That doesn't make much sense, does it?

You're just not trying very hard.

No. Your answer was incorrect.

The problem was 23/10. Since there is one zero
in the denominator, you can simply move the decimal
point one place to the left in the numerator. 23/10
then becomes 2.3.

How would you express 78/10 as a decimal number?

No. You located the decimal point incorrectly.

Remember, ror thousandths you should count off three decimal places.

What is 9817/1000 expressed as an equivalent decimal number?

No. You just aren't getting it. Let's look at a few examples.

78/10 = 7.8   358/100 = 3.58   476/10 = 47.6

1937/1000 = 1.937   123/10 = 12.3   984/100 = 9.84

See how the zeroes work? In changing to decimal numbers, you move the decimal point in the numerator one place to the left for each zero.

So, then how would you express 53/10 as a decimal number?

Hold on! Don't be in such a hurry.

The answer you chose is not even a decimal number.

Go back to page 37 and see if you can make a reasonable choice.

No. Your answer was incorrect.

The problem was 23/10. Since there is one zero in the denominator, you can simply move the decimal point one place to the left in the numerator. 23/10 then becomes 2.3.

How would you express 78/10 as a decimal number?

Excellent! Keep up the good work.

Express 23/10 as a decimal number.

Correct.

Try this one.

Change 419/100 to its decimal equivalent.

Incorrect.

You are making this much too difficult. Ask your
teacher for additional help.

Then return to the beginning of this Unit.

No. You seem to be forgetting the rule. That is,
just move the decimal point one place to the left
for every zero in the denominator.

Express 149/10 as a decimal number.

    (a) 14.9

    (b) 1.49

Fine!

Now try this one.

How would you express 356/100 in decimal form?

Incorrect.

The problem was to change 2/5 to a decimal. Let's
look at a clever way to do it. Notice that 2/5 x
2/2 = 4/10. If you can change the fraction into an
equivalent fraction with 10 or 100 in the denomina-
tor, the problem becomes very easy. It would then be
just like the problem you have been doing so far.

In the last problem 2/5 = 2/5 x 2/2 = 4/10. You
know that 4/10 = .4. This is a method that should
help you save time.

Now try this problem.

What is the decimal equivalent of 7/20?

Very good!

See if you can do this one by the same method.

21/50 is equal to what decimal number?

Very good!

Let's try a few different types.

Express 2/5 as a decimal.

Correct! Keep it up.

11/20 is equal to which of the following?

(a)	.11	Turn to page 59
(b)	.21	Turn to page 61
(c)	.55	Turn to page 67

Ooops! I think maybe you were a little careless
there. You should have said 21/50 = 21/50 x 2/2 =
42/100 = .42.

Try another one.

Convert 40/50 to a decimal number.

No. You still don't see it. Let's look at some examples.

$9/20 = 9/20 \times 5/5 = 45/100 = .45$

$12/50 = 12/50 \times 2/2 = 24/100 = .24$

$4/5 = 4/5 \times 2/2 = 8/10 = .8$

Notice that in each case the original fraction was changed to an equivalent fraction with 10 or 100 as the denominator. Once that is done, you simply put as many decimal places in your answer as there are zeroes in the denominator.

Using the method that was just explained, see if you can work this one.

How would you express 3/5 in decimal form?

Right: Now you have the idea.

Try this one.

Convert 8/25 into a decimal.

Incorrect.

The problem was to change 2/5 to a decimal. Let's
look at a clever way to do it. Notice that 2/5 x 2/2 =
4/10. If you can change the fraction into an equiva-
lent fraction with 10 or 100 in the denominator, the
problem becomes very easy. It would then be just
like the problems you have been doing so far.

In the last problem 2/5 = 2/5 x 2/2 = 4/10. You
know that 4/10 = .4. This is a method that should
help you save time.

Now try this problem.

What is the decimal equivalent of 7/20?

No. You still don't see it. Let's look at some examples:

$$9/20 = 9/20 \times 5/5 = 45/100 = .45$$
$$12/50 = 12/50 \times 2/2 = 24/100 = .24$$
$$4/5 = 4/5 \times 2/2 = 8/10 = .8$$

Notice that in each case the original fraction was changed to an equivalent fraction with 10 or 100 as the denominator. Once that is done, you simply put as many decimal places in your answer as there are zeroes in the denominator.

Using the method that was just explained, see if you can work this one.

How would you express 3/5 in decimal form?

Ooops! .8 is equal to 8/10. Our problem was 8/25.

Incorrect.

Let's look at the problem solved correctly.

3/5 = 3/5 x 2/2 = 6/10 = .6

See how easy it is. I don't think you're trying
hard enough.

Hold on! It looks to me like you inverted the
problem. The problem was 40/50, not 50/40.

Better go back and work the problem on page 60
again.

No. You didn't get it.

Here's one a little easier.

What is the decimal equivalent of 1/5?

Ooops! I think maybe you were a little careless there.

You should have said $21/50 = 21/50 \times 2/2 = 42/100 = .42$

Try another one.

Convert 40/50 to a decimal number.

No. You didn't get it.

Here's one a little easier.

What is the decimal equivalent of 1/5?

You are having trouble, aren't you? You need some
extra help on division.

Go work Unit 11 on division of fractions. Then return

What? Do you know what you did? You divided the
numerator into the denominator. That is backward.

No. Did you divide incorrectly?

You should have divided 3 by 8. That is the general way to convert any fraction to a decimal. That is, divide the numerator by the denominator.

Now try this one.

Find the decimal value of 9/16.

Fine! You are doing well.

What is the decimal equivalent of 5/7?

You are having trouble, aren't you? You need some
extra help on division.

Go work Unit 11 on division of fractions. Then return
to page 67 of this Unit.

O.K!

Now let's proceed with some problems that are a
little different from the last ones. All answers
should be rounded to three decimal places.

Express 3/8 as a decimal number.

Ooops! You performed the division correctly, but you mislocated the decimal.

See if you can do better on this one.

Convert 5/12 to a decimal number.

No. You were careless on that one. Take your time when you are performing the division.

Try this one.

How would you express 5/9 as a decimal number?

(a) 1.8

(b) .59

(c) .556

Hold on there! You found the value for 15/11, but
that wasn't what you were asked to do.

You're just not trying very hard. How can 5/12 =
41.667? If 12/12 = 1, then certainly 5/12 is less
than one!

Go back to page 68 and make a more reasonable
selection.

One way you can always use to change a fraction to a decimal is simply to divide the numerator of the fraction by the denominator.

For example, in 3/8, $\frac{3}{8}$ $\begin{array}{l} \rightarrow \text{ Numerator} \\ \rightarrow \text{ Denominator} \end{array}$

So, $8\overline{)3.000}$ $\overset{.375}{}$ ←- Quotient

The quotient will be the correct decimal equivalent for the fraction. All right?

Are you ready to try one more?

Find the decimal value of 9/16.

No. You <u>must</u> locate the decimal point correctly.

Look at this example:
$$10\,\overline{)5.000}^{\,.5}$$
$$\underline{50}$$
$$--$$

Notice that both decimal points are in a vertical line.

See if you can do it correctly this time.

Convert 2/3 to a decimal number.

Doggone it! It's just not that hard.

There are only two things you need to do. First, divide the numerator by (not into) the denominator. Second, correctly locate the decimal point.

Here is an example:

$$3/8 = 3 \div 8 \qquad \text{We have } 8 \overline{)\begin{array}{r} .375 \\ 3.000 \\ \underline{2\ 4} \\ 60 \\ \underline{56} \\ 40 \\ \underline{40} \end{array}}$$

Notice how the decimal points are lined up. Also, notice that you can put as many zeroes as you need after the 3. in the dividend.

Now try this problem.

What is the decimal equivalent of 1/8?

Correct!

Here's another.

How would you express 11/15 as a decimal number?

Ooops! You performed the division correctly, but you
mislocated the decimal.

See if you can do better on this one.

Convert 5/12 to a decimal number.

You worked all the numbers correctly, but you made
a decimal error.

Go to page 64 and see if you can find a better
answer.

Correct!

Here's another one.

What decimal number is equal to the fraction 7/9?

No. You <u>must</u> locate the decimal point correctly.

Look at this example:

```
        .5
10 /5.000        Notice that both decimal points
   5 0
     --          are in a vertical line.
```

See if you can do it correctly this time.

Convert 2/3 to a decimal number.

No. You must have divided too quickly.

12/15 = .8. It divides evenly.

Now, see if you can express 3/14 as a decimal number.

Come now.

You can tell by inspection that 18/25 is not equal
to 7.2. 18/25 is less than one!

Go back to page 84 and make a more reasonable
selection.

Excellent! You are correct.

Convert 12/15 to a decimal number.

No. You located the decimal point incorrectly.

The correct answer was that 4/11 is equal to .364.

What is the decimal equivalent of 3/17?

Correct!

What is the decimal equivalent of 18/25?

No. You located the decimal point incorrectly.

The correct answer was that 4/11 is equal to .364.

What is the decimal equivalent of 3/17?

Fine! Your last answer was correct.

See if you can do this one.

The decimal equivalent of 4/11 is:

No. You are making this too difficult. There are
two methods we have learned. They are:

1. ᵀᶠ the fraction can be changed to an equivalent
   ιᶠaction with 10 or 100 as a denominator, do it.
   Then simply locate the decimal point in the numera-
   tor, allowing one decimal place for each zero in
   the denominator.

2. The method which will <u>always</u> work is to divide
   the numerator <u>by</u> the denominator.

Ooops! You slipped up on locating the decimal point.

Be more careful on this one.

What decimal number is equal to 9/25?

No. You had the correct numbers, but you mislocated the decimal point.

See if you can do better on this one.

What is the decimal equivalent of 5/6?

Page 90

No. You are making this too difficult. There are
two methods we have learned. They are:

1. If the fraction can be changed to an equivalent
   fraction with 10 or 100 as a denominator, do it.
   Then simply locate the decimal point in the numera-
   tor, allowing one decimal place for each zero in
   the denominator.

2. The method which will _always_ work is to divide
   the numerator _by_ the denominator.

Keeping these methods in mind, go back to page 92
and do the problem more carefully this time.

No. You made a mistake in placing the decimal point.

Did you remember the first method you learned for working this type of problem? Remember, 17/20 = 17/20 x 5/5 = 85/100 = .85. That is the simplest way to work it.

O.K. Now try this one.

Convert 11/20 to a decimal number.

Very good!

Now, what is the decimal equivalent of 17/20?

Hold on there. You performed your division backward.

Turn back to page 95 and try again.

No. 3.17 is not correct. The problem was 3/17, not
3.17.

You aren't being very careful. Go back to page 85
and see if you can make a better selection.

No. You made a mistake in placing the decimal point.

Did you remember the first method you learned for
working this type of problem? Remember, 17/20 =
17/20 x 5/5 = 85/100 = .85. That is the simplest way
to work it.

O.K. Now try this one.

Convert 11/20 to a decimal number.

No. You seem to be having difficulty with the fractions where the numerator is larger than the denominator.

Look at this example: $7/3 = 3\overline{\smash{)}7.000}$ ... So 7/3 = 2.333.

$$
\begin{array}{r}
2.333 \\
3\overline{\smash{)}7.000} \\
6 \\
\hline
10 \\
9 \\
\hline
10 \\
9 \\
\hline
10
\end{array}
$$

Be careful to line the decimal points up properly. Then just perform the division.

No.

The correct answer was 1.75. You should have divided

7 by 4 and then correctly located the decimal point.

Convert 8/5 to its equivalent decimal number.

No.

The correct answer was 1.75. You should have divided
7 by 4 and then correctly located the decimal point.

Convert 8/5 to its equivalent decimal number.

No. You are incorrect. Let's look at the solution.

$$380/45 = 45\overline{)380.000} \begin{array}{r} 8.444 \\ \underline{360} \\ 20\ 0 \\ \underline{18\ 0} \\ 2\ 00 \\ \underline{1\ 80} \\ 200 \\ \underline{180} \\ 20 \end{array}$$

There is really nothing

difficult about this problem.

See if you can do better on this one.

What is the decimal equivalent of 210/55?

Excellent! You have now completed this Unit. Let's review what you've learned.

1. When a fraction has 10 or 100 for its denominator, you change it to a decimal by simply putting as many decimal places in the numerator as there are zeroes in the denominator.

2. If you can change a fraction to an equivalent fraction with 10 or 100 as a denominator, do it and proceed as in #1 above.

3. For all fractions you can divide the numerator by the denominator in order to change it to decimal form. This is one method which <u>always</u> works, regardless of the numbers involved.

Tell your teacher you have finished this Unit and are ready for a test.

Quite right!

Keep it up.

How would you express 39/12 as a decimal number?

No. You seem to be having difficulty with the
fractions where the numerator is larger than the
denominator. Look at this example:

$$
7/3 = 3\overline{)7.000}\!\!^{\displaystyle 2.333} \qquad \text{So, } 7/3 = 2.333.
$$

$$
\begin{array}{r}
2.333 \\
3\overline{)7.000} \\
6 \\
\hline
10 \\
9 \\
\hline
10 \\
9 \\
\hline
10
\end{array}
$$

Be careful to line the decimal points up properly.
Then just perform the division.

Fine!

Keep up the good work.

Convert 7/4 to a decimal number.

No. I think you're just working too fast. Come on, now. If you can get a few more right, you'll be done.

Now, what is the decimal equivalent of 5/3?

Incorrect.

Come now. You've come this far. I know you can do better. Work carefully on this one.

What is the decimal equivalent of 44/12?

No. You are incorrect.

Let's look at the solution: $380/45 = $

$$
\begin{array}{r}
8.444 \\
45\overline{\smash{)}380.000} \\
360 \\
\hline
20\ 0 \\
18\ 0 \\
\hline
2\ 00 \\
1\ 80 \\
\hline
200 \\
180 \\
\hline
20
\end{array}
$$

There is really nothing difficult about this problem.

See if you can do better on this one.

ıᴛ is the decimal equivalent of 210/55?

Your answer of .543 is not correct. Although you divided correctly, you made an error in locating the decimal point.

Be more careful on this one.

Convert 91/15 to a decimal number.

Very fine!

Here's another one. Don't let the larger numbers
fool you. Do exactly the same as you've been doing.

Convert 350/45 to a decimal number.

Ooops! Be careful. You divided that one backward.

Incorrect.

Come now. You've come this far. I know you can do better.

Work carefully on this one.

What is the decimal equivalent of 44/12?

Exactly right!

Now, what decimal number is the same as 413/76?

Incorrect.

Remember, you should divide the numerator <u>by</u> the
denominator.

No.

I think you're just working too fast.   Come on, now.
If you can get a few more right, you'll be done.

Now, what is the decimal equivalent of 5/3?

CAI MATHEMATICS

TEST QUESTIONS

UNIT 12 - CONVERSION OF FRACTIONS INTO DECIMALS

Directions: If rounding off is necessary, round off to 2 decimal places.

1. What is the decimal value of 1/100?

    a)   .01

    b)   100.0

    c)   .1

2. Express 3/8 as a decimal

    a)   .380

    b)   .375

    c)   .4

3. Convert 417/10 to a decimal

    a)   .417

    b)   4.17

    c)   41.7

4. What is the decimal value of 27/12?

    a)   22.5

    b)   2.25

    c)   .225

5. 32/1000 can be written as

    a)   3.02

    b)   .032

    c)   0.32

6. Find the decimal value of 9/16

    a) .56

    b) 5.6

    c) .57

7. What is the decimal value of 13/10000?

    a) .0013

    b) .00013

    c) .013

8. Convert 5/12 to a decimal

    a) .43

    b) .424

    c) .42

9. 2475/100 =

    a) 247.5

    b) 24.75

    c) 2.475

10. Convert 150/12 to a decimal

    a) .125

    b) 12.5

    c) 1.25

11. The fraction 1/1000 is equal to

    a)   .1

    b) .01

    c) .001

6. Find the decimal value of 9/16

   a) .56

   b) 5.6

   c) .57

7. What is the decimal value of 13/10000?

   a) .0013

   b) .00013

   c) .013

8. Convert 5/12 to a decimal

   a) .43

   b) .424

   c) .42

9. 2475/100 =

   a) 247.5

   b) 24.75

   c) 2.475

10. Convert 150/12 to a decimal

    a) .125

    b) 12.5

    c) 1.25

11. The fraction 1/1000 is equal to

    a) .1

    b) .01

    c) .001

12. The fraction 5/9 is equal to

    a) .56

    b) 5.56

    c) .544

13. 12/10 has a decimal equivalent of

    a) 1.2

    b) .12

    c) 120

14. The fraction 13/20 can be written as

    a) 6.5

    b) 0.65

    c) .065

15. What is 18/1000 expressed as a decimal?

    a) .18

    b) .0018

    c) neither

16. Convert 38/15 to a decimal

    a) 2.53

    b) .026

    c) 25.3

17. You can also write 4/100 as

    a) .4

    b) .04

    c) .004

18. 18/25 is equal to

    a) 7.2

    b) .072

    c) .72

19. 136/1000 is equivalent to

    a) .136

    b) 13.6

    c) .0136

20. The fraction 93/50 is equal to

    a) 1.76

    b) 1.86

    c) 1.96

21. 5983/100 can be written as

    a) 598.3

    b) .5983

    c) 59.83

22. You can express 2/3 as

    a) .67

    b) .65

    c) 6.67

23. 1000/10 is equal to

    a) 100,000

    b) 100

    c) 10

24. 15/40. to three decimal places, is

    a) .375

    b) 3.750

    c) .357

25. Change 829/100 to its decimal equivalent.

    a) .829

    b) 8.29

    c) 82.9

ANSWER SHEET

UNIT 12 - CONVERSION OF FRACTIONS INTO DECIMALS

1.	a	15.	c
2.	b	16.	a
3.	c	17.	b
4.	b	18.	c
5.	b	19.	a
6.	a	20.	b
7.	a	21.	c
8.	c	22.	a
9.	b	23.	b
10.	b	24.	a
11.	c	25.	b
12.	a		
13.	a		
14.	b		

To the instructor: The above problems are related to the following objectives:

OBJECTIVE 1 : Questions 1,3,5, - - - all odd

OBJECTIVE 2 : Questions 2,4,6, - - - all even