

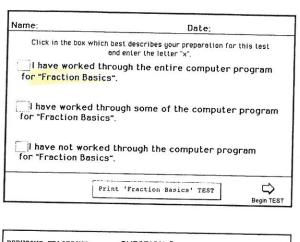
### **Using MathMedia TESTS**

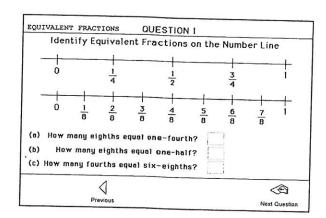
TO: Instructors, Teachers, and self-learners

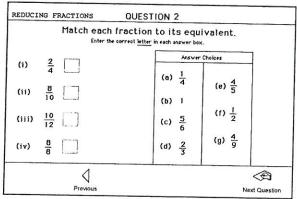
Here are some ideas for using the enclosed TEST(s):

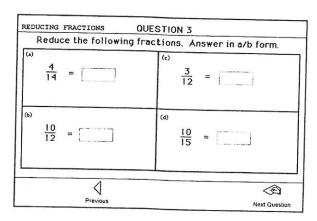
- (1) Use the Test as a PRE-TEST to find areas of weakness. The top left corner of each problem indicates which section in the program to study for that question.
- (2) Use the Test as a PRE-TEST to compare with the score obtained after going through the whole program.
- (3) Use the TEST as a traditional POST-TEST to determine proficiency in the subject. Print test and score sheet to analyze weak areas, which require further study.
- (4) Perform the TEST at the computer or on paper -- score the test at the computer or score "by hand" with the enclosed answer sheet(s).

MathMedia Educational Software, Inc. www.mathmedia.com

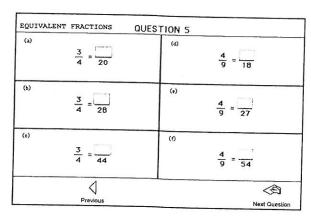


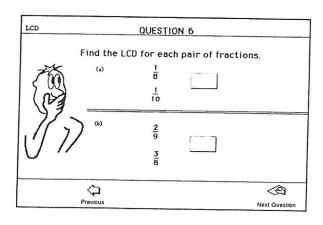


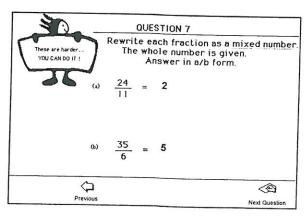


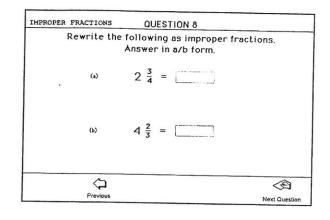


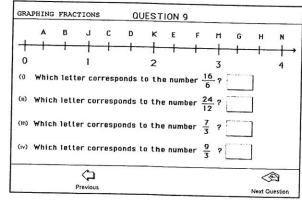
COMPARE FRACTION	QUESTION 4	
to ar	Use the symbol  > ("greater than"  < ("less than")  = ("equal to")  iswer the following re	
$\frac{2}{3}$ $\frac{4}{6}$	(c) 1/4	1 3 8
$\frac{1}{4}$ $\frac{1}{8}$	(d) 2 3 4	$\frac{3}{4}$ $\frac{7}{8}$
< Prev	Jious	Next Question

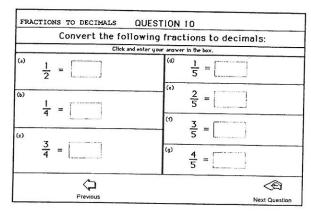


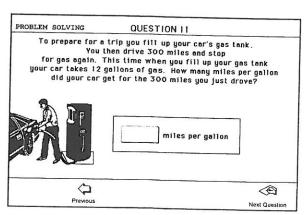


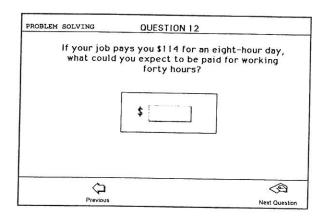


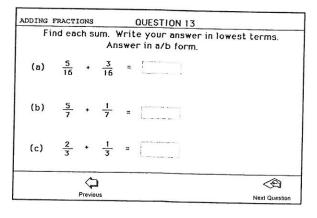


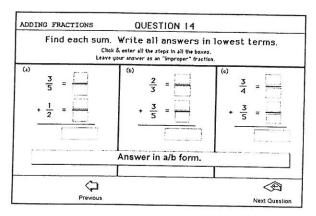


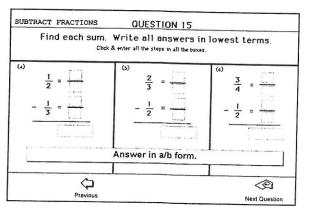


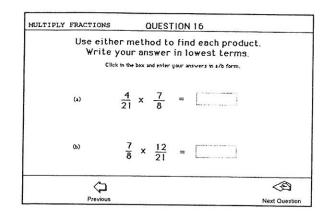


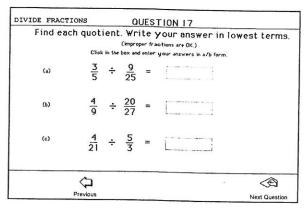


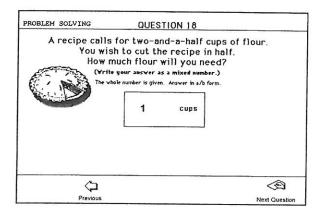


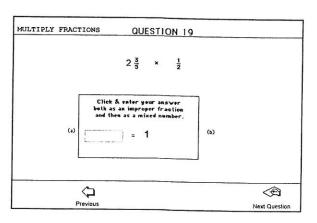












DIVIDE FRACTIONS	QUESTION 20	
	$4\frac{1}{2} \div 1\frac{1}{3}$	
	Write your ansver as an "improper fraction" in lowest terms and in a/b form.	
Previo	SCORE THIS TEST	This is the end

late:		Stu	dent Name	<u>.</u>	
	Sco	re report	for Fraction	n Basics	
Q1(a) Q1(b) Q1(c) Q1(c) Q2(i) Q2(ii) Q2(iii)	Q4(a) Q4(b) Q4(c) Q4(d) Q4(e) Q4(f)	Q6(a) Q6(b) Q7(a) Q7(b)	Q10(a) Q10(b) Q10(c) Q10(d) Q10(e) Q10(f) Q10(g)	Q14(a) Q14(b) Q14(c) Q15(a) Q15(b) Q15(c)	Q18 Q19(a) Q19(b)
Q3(a) Q5(b) Q3(b) Q5(c) Q3(b) Q5(d) Q5(c) Q5(c) Q5(c)	Q5(b) Q5(c) Q9(i) Q5(d) Q9(ii) Q5(e) Q9(iii)	Q9(i) Q9(ii) Q9(iii)	Q11 Q12 Q13(a) Q13(b) Q13(c)	Q16(a) Q16(b) Q17(a) Q17(b) Q17(c)	Score: /60
			Exit TEST		PRINT

# Answers to Fraction Basics Test:

Q1 (a) 2	Q7 (a) 2 2/11	Q15 (a) 1/6
Q1 (b) 4	Q7 (b) 5 5/6	Q15 (b) 1/6
Q1 (c) 3	( ) = = = =	Q15 (c) 1/4
	Q8(a) 11/4	Q13 (C) 74
Q2 (i) f	Q8(b) 14/3	0166516
Q2 (ii) e	Q8(0) 14/3	Q16 (a) 1/6
	00.00	Q16 (b) ½
Q2 (iii)c	Q9 (i) f	
Q2 (iv) b	Q9 (ii) k	Q17 (a) 5/3
	Q9 (iii)e	Q17 (b) 3/5
Q3 (a) 2/7	Q9 (iv) m	Q17 (c) 4/35
Q3 (b) 5/6		
Q3(c) 1/4	Q10 (a) .5	Q18 1 1/4
Q3 (d) 2/3	Q10 (b) .25	Q10 1 /4
	Q10(c) .75	Q19 $13/10 = 1 \frac{3}{10}$
Q4 (a) =	Q10 (d) .2	Q19 = 13/10 - 13/10
Q4 (b) >		Q20 27/8
Q4(c) >		Q20 2110
	Q10 (f) .6	
Q4 (d) <	Q10 (g) .8	
Q4 (e) >		
Q4(f) <	Q11 25	
Q5 (a) 15	Q12 570	MathMedia
Q5 (b) 21	<b>2</b> 3.0	Educational Software, Inc.
Q5(c) 33	Q13 (a) ½	3641 Pebble Beach Rd
Q5 (d) 8	Q13 (b) 6/7	Northbrook, IL 60062 PH: 847-564-1441
Q5 (e) 12		FAX: 847-564-8536
	Q13(c) 1	www.mathmedia.com
Q5 (f) 24	0147 \ 11/10	Competition of the second of t
06() 40	Q14 (a) 11/10	
Q6 (a) 40	Q14 (b) 19/15	
Q6 (b) 72	Q14(c) 27/20	

Name:	Date:	
Click in the	e box which best describes your preparation for and enter the letter "x".	or this lest
for "Decim	orked through the entire computer nal Basics".	program
I have we for "Decim	orked through some of the compute al Basics".	er program
I have no	ot worked through the computer pro al Basics".	ogram
	Print 'Decimal Basics' TEST	

Place Value	QUESTION 1	
320 2	Click in the box and enter your answer. Then	
(a)	What digit is in the tenths	place?
	17.89	
(b)	What digit is in the tens	place?
	506.18	
(c) '	What digit is in the hundredth	ns place?
	8.635241	
	$\Diamond$	<u> </u>
	Previous	Next Question

Writing Decimals	QUESTION 2	
Write	decimals spoken in these decimals in n d" is where the dec	iumbers.
(a) "One and twer	nty five hundredths	• [
(b) "Five and five	tenths"	
(c) "Three hundre	ed and a tenth"	
(d) "Three and th	ree tenths"	
(e) "Three and the	ree thousandths"	
<b>\( \( \)</b>	3,000	@
Previous		Next Question

			В	c		_	W		N 3			- 0			_
4		_	- Î	ĭ	-		D	E	F	6	4	н	J	K	
0.	0.0	•			0.5		1	•	-	1.0	-		-	-	
			En rep	iter th	e lett	er which	ch per.		0.2					(1)	
			17.2						0.6	[	**********		]	(ii)	
									0.9					(iii)	
									1.2					(iv)	
									0.0		_			(v)	

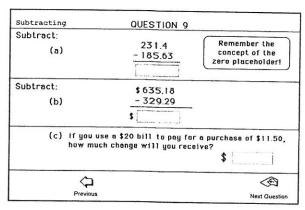
Comparing Decimals (	UESTION 4
Use	the symbols
L	ess Than > ess Than < Equal = following relationships:
0.7001 0.70001	0.09 0.090
289.5 289.3	456.2 456.3
<b>⇔</b>	<u></u>
Previous	Next Question

Round ea numbe		t neares	
21.48	7 (a)	(b)	(e)
33.58	O (q)	(e)	(n
60.13	5 (9)	(h)	(i)
54.95	5 (i)	(k)	(1)
290.55	(m)	(n)	(0)

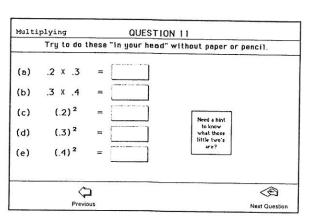
onver			lecimal		ction is	n lowes		
						the form a	/ь.	
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
.125	.2	.25	.375	.4	.5	.6	.75	.8
		<u></u>						<u></u>

Compare	QUESTION 7								
Use the	signs of co	mpari:	son to	answ	ver these questions.				
	(a)	.65		<del>2</del>					
	(b)	.75		5 10	Less than  Greater than > Equal to =				
	(c)	.55		2 3	Make sure everything is reduced to lovest				
	(d)	.10		2 5	terms in order to compare properly.				
	♦				<u>©</u>				
	Previous				Next Question				

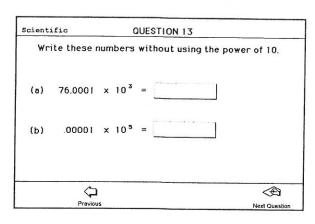


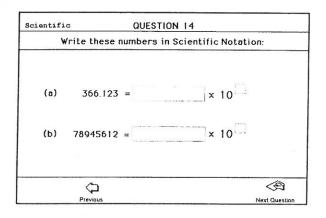


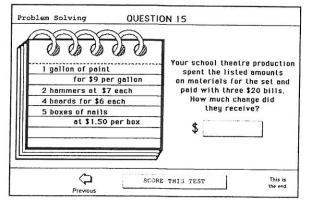
Problem Solving	QUESTION 10
A local doug	hnut shop runs a morning special
on	For \$2.50, you can purchase a
	e and a plate of three doughnuts.
	ulate the tax, which is 8%.
How muc	h will this breakfast cost you?
<u> </u>	(a) tax = \$
(ь)	total cost of breakfast = \$
Control of the second	
<b>\(\frac{1}{2}\)</b>	<u>©</u>
Previous	Next Questii

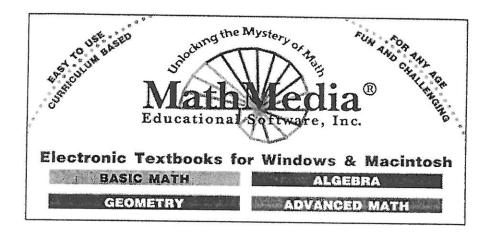


Dividing Decimals	QUESTION 12	
C	ICK IN THE BOX TO ENTER YOUR ANSWER	
(a) 5)405	(c)	.5 ) 40.5
(b) 5 )40.5	(d)	.5 ) 405
Provid	Dous	Next Question



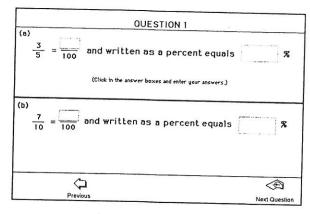


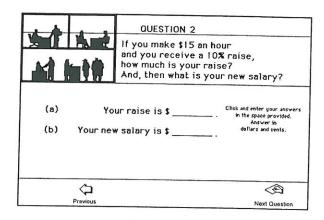




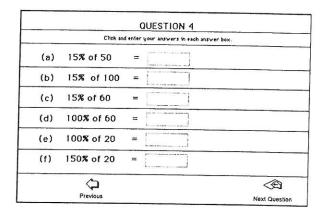
Decimal Basics		
Q1(a) 8		
Q1(b) 0	Q5(k) 55.0	Q11(a) .06
Q1(c) 3	Q5(1) 55	Q11(b) .12
	Q5(m) 290.56	Q11(c) .04
Q2(a) 1.25	Q5(n) 290.6	Q11(d) .09
Q2(b) 5.5	Q5(o) 291	Q11(d) .05
Q2(c) 300.1		Q11(o) .10
Q2(d) 3.3	Q6(a) 1/8	Q12(a) 81
Q2(e) 3.003	Q6(b) 1/5	Q12(a) 81 Q12(b) 8.1
	Q6(c) 1/4	Q12(c) 81
Q3(i) B	Q6(d) 3/8	
Q3(ii) D	Q6(e) 2/5	Q12(d) 810
Q3(iii) G	Q6(f) 1/2	012(a) 76000 1
Q3(iv) J	Q6(g) 3/5	Q13(a) 76000.1
Q3(v) A	Q6(h) 3/4	Q13(b) 1
(1)	Q6(i) 4/5	014(-) 2 ((122 - 1042
Q4(a) >	Q0(1) 4/3	Q14(a) 3.66123 x 10 <sup>2</sup>
Q4(b) >	Q7(a) >	Q14(b) 7.8945612 x 10^7
Q4(c) =		
Q4(d) <	Q7(b) > 07(c) < 0	Q15 5.50
Q+(d) \	Q7(c) < 0.7(d) < 0.7(d)	Q15 5.50
Q5(a) 21.49	Q7(d) <	
Q5(a) 21.49 Q5(b) 21.5	00 0000 10	
Q5(c) 21.5	Q8 8069.48	
	00() 45.55	
Q5(d) 33.58	Q9(a) 45.77	
Q5(e) 33.6	Q9(b) 305.89	
Q5(f) 34	Q9(c) 8.50	
Q5(g) 60.14	04043	
Q5(h) 60.1	Q10(a) .20	
Q5(i) 60	Q10(b) 2.70	
Q5(j) 54.96		

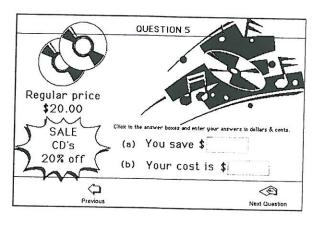
Name:		Date:	8/27/02
Click in the	e box which best descri and enter th	ibes your preparation : ne letter "x".	for this test
for "Perce	orked through the nt Basics".	e entire compute	r program
I have wo	orked through son it Basics".	ne of the comput	er program
I have no for "Percen	t worked through t Basics".	the computer pr	ogram
	Print 'Perce	nt Basics' TEST	
			Begin TEST

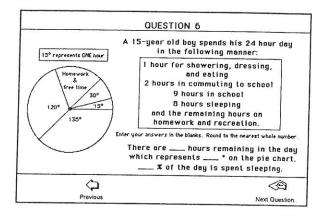


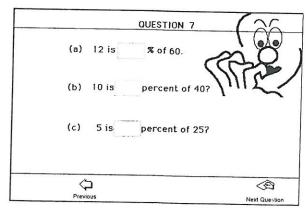


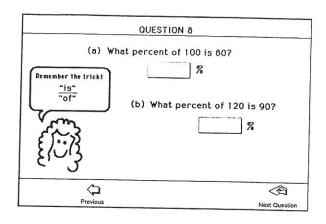
paper to w	(applicant)	QUESTION 3	
(a)	What is 30% of 60?		
(b)	What is 5% of 80?		
(c)	What is 15% of 100?		
(d)	What is 10% of 120?		
	Previous	Nort O	

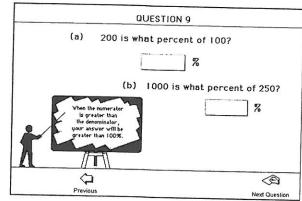


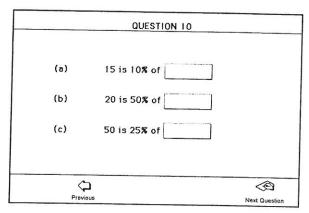


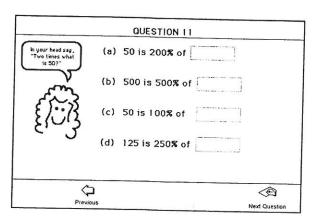


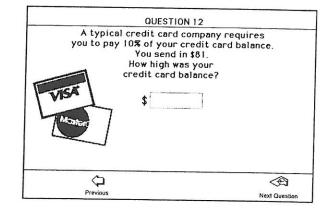


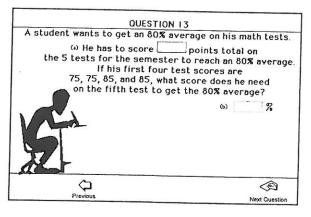


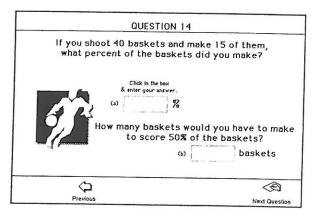


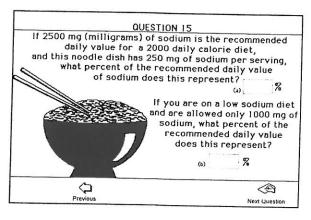


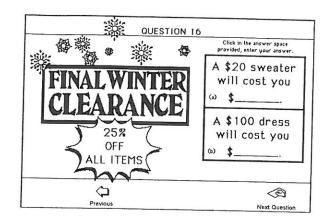


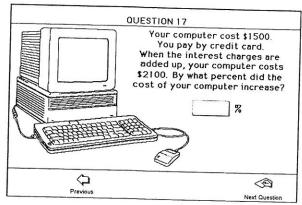


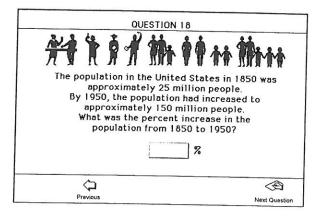


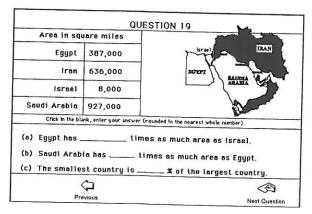


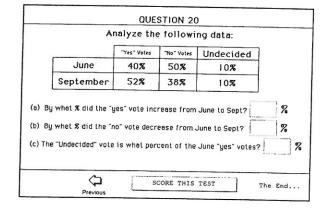




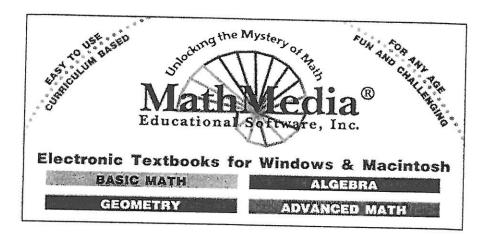








	Sco	re report	for Perce	nt Basics	
Q1(a) Q1(b)	Q4(a) Q4(b) Q4(c) Q4(d)	Q7(a) Q7(b) Q7(c)	Q11(a) Q11(b) Q11(c)	Q16(a) Q16(b)	Q20(a) Q20(b) Q20(c)
Q2(a) Q2(b)	Q4(e) Q4(f)	Q8(a) Q8(b)	Q11(d) Q12	Q17 (	
	Q5(a) Q5(b)	Q9(a) Q9(b)	Q13(a) Q13(b)	Q19(a)	Score:
Q3(a) Q3(b) Q3(c) Q3(d)	Q6(a) Q6(b) Q6(c)	Q10(a) Q10(b) Q10(c)	Q14(a) Q14(b) Q15(a) Q15(b)	Q19(b) Q19(c)	/ 50 %
			Q15(b)		



#### **Percent Basics**

Q1(a) 60

Q1(b) 70

Q2(a) 1.50

Q2(b) 16.50

Q3(a) 18

Q3(b) 4

Q3(c) 15

Q3(d) 12

Q4(a) 7.5

Q4(b) 15

Q4(c) 9

Q4(d) 60

Q4(e) 20

Q4(f) 30

Q5(a) 4.00

Q5(b) 16.00

Q6(a) 4

Q6(b) 60

Q6(c) 33

Q7(a) 20

Q7(b) 25

Q7(c) 20

Q8(a) 80 Q8(b) 75 Q9(a) 200

Q9(b) 400

Q10(a) 150

Q10(b) 40

Q10(c) 200

Q11(a) 25 Q11(b) 100

Q11(c) 50

Q11(d) 50

Q12 810

Q13(a) 400

Q13(b) 80

Q14(a) 37.5

Q14(b) 20

Q15(a) 10 Q15(b) 25

\_\_\_\_

Q16(a) 15 Q16(b) 75

Q17 40

Q18 500

Q19(a) 48

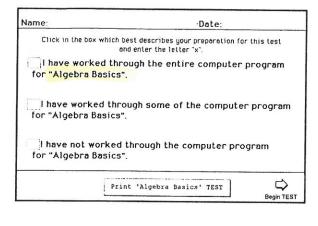
Q19(b) 2

Q19(c) 1

Q20(a) 12

Q20(b) 12

Q20(c) 25



Signed Numbers	QUESTION I	
Simplify:	Click in the box and enter your answer.	
(a) 8 - 10 +	- 1 =	
(b) - (-2 -	1) =	
(c) -1 - 1 - (-	-1) =	
(d) 6 - (-	0) =	
<b>\(\frac{1}{2}\)</b>		<b>®</b>

Signed Nun	nbers	QUESTION 2	
Multip	ly:	Click in the box enter your answ	
(a)	(-4) (-		
(b)	(6) (-1	0) =	
(c) (	(-2) (-1)	(3) =	
(d) -	(-9) (0) (	-1)=	
	<b>\(\rightarrow\)</b>		<b>®</b>
	Previous		Next Question

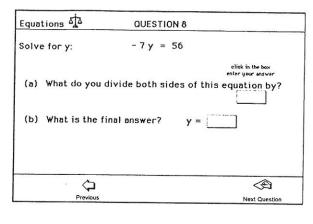
ignec	Numbers	QU	ESTION 3	
Si	mplify:		Click in the box and enter your answer.	
(a)	-(3+4)+4+(-7)	=		
(b)	-8[-12+(-8)]	=		
(c)	80 ÷ (-4)	=		
(d)	-2 (3 ÷ 3)	=		
	♦			<b>®</b>
	Previous			Next Question

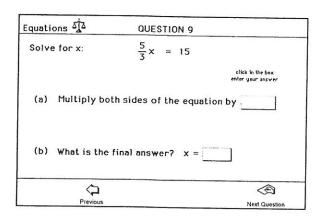
Simpl	ify:		Click in the box and enter your answer.	
(a)	-4 (3) <sup>2</sup>	=		
(b)	8 - 2 (3)2	=		
(c)	3 <sup>2</sup> + (-2) <sup>2</sup>	=		
(d)	$(2-4)^3(2)$	=		
	♦			<b>②</b>
	Previous			Next Question

Yariables	QUE	STION 5
Let	x = -2 and $y = 3$ .	Simplify each expression.
		Chick in the box and enter your answer.
(a)	4x - 4y =	
(b)	6y - 2y =	
(c)	3x (2y) =	
(6)	3x (2y) =	
(d)	2x - 4(2y) =	
	<b>⇔</b>	<u>@</u>
	Previous	Next Question

Variables	QUE	STION 6
Let x	= -2 and $y = 3$ .	Simplify each expression.
$\frac{\text{Hinl:}}{x^2 = x \text{ times } x} (a)$ $x^3 = x \text{ times } x \text{ times}$	4x <sup>2</sup> - y =	Click in the box and enter your answer.
(b)	$x - 5y^2 =$	
(c)	$x(2y)^{2} =$	
(d)	$2x^3 - y^2 =$	
	$\Diamond$	<u>©</u>
F	revious	Next Question

Equations 🟚	QUESTION 7
Solve for y:	y - 7 = 20
	click in the box enter your answer
(a) What do you a	dd to both sides of this equation?
(b) What is the fi	nal answer? y =
<u>(</u> )	<b>√</b>
Previous	Next Question

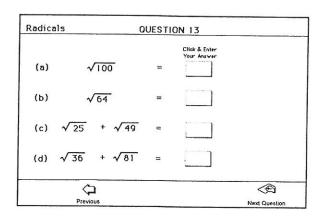




Equations 🙀	QUESTION 10	
Solve for x:	4 (2x - 5) = 44	
(a) First, c	livide by	
(b) Then, ac	to both sides of th	ne equation.
(c) Then, d	ivide by	
(d) And, no	w, x = [	
<b>⇔</b>		<b>②</b>
Previous		Next Question

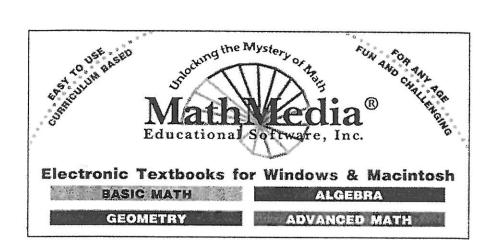
Equations 🛱	QUESTION 11	
Solve for x:	5x + 6 = 3x + 20	
	x = [	
<b>⇔</b>		<b>©</b>
Previou	s	Next Question

Exponen	ts	QUESTION 12	
	lf x	= -2 and $y = 2$	1 find:
(a)	x 2 + y 2	=	
(b)	$(x + y)^2$	=	
(c)	x²y²	=	
(d)	(xy)²	= []	
1	<u> </u>		<u> </u>
	Previous		Next Question



	n = 8, what is the value of 3 n+1?  Clock inside the box & enter your answer.
3 <sup>n</sup>	A STATE OF THE STA
3 <sup>n</sup>	1+1 _
Previ	ious Next Question

Critical Thinking	QUESTION 15
operation	on Mars and there is a new algebraic written with the symbol (*). t the definition of this operation is:
a	$  b = a^2 + 3ab - b^2 $
and y	ou must find the value of
	3 🛞 4
	3 🏵 4 =
Previous	SCORE THIS TEST The end



Algeb	ra Basics		
Q1(a)		Q7(a)	7
Q1(b)		Q7(b)	
Q1(c)	-1		
Q1(d)	16	Q8(a)	-7
	2	Q8(b)	-8
Q2(a)			
Q2(b)		Q9(a)	
Q2(c)		Q9(b)	9
Q2(d)	0	O10(a)	1
Q3(a)	-10	Q10(a) Q10(b)	
Q3(b)		Q10(c)	
Q3(c)		Q10(d)	
Q3(d)		(20(4)	J
		Q11	7
Q4(a)	-36		
Q4(b)		Q12(a)	20
Q4(c)		Q12(b)	
Q4(d)	-16	Q12(c)	
	• •	Q12(d)	64
Q5(a)			
Q5(b)		Q13(a)	
Q5(c)		Q13(b)	
Q5(d)	-28	Q13(c)	
THE STREET		Q13(d)	15
Q6(a)	13		

Q14

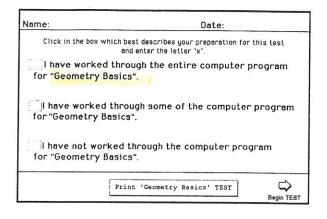
Q15

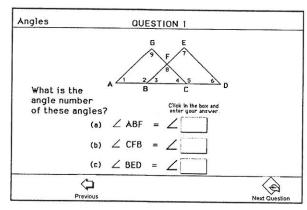
81

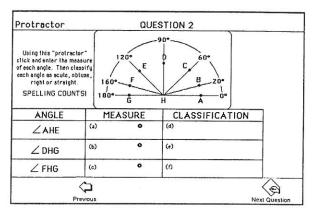
29

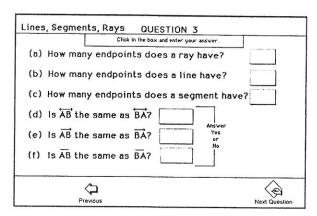
Q6(b) -47

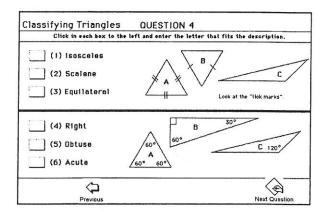
Q6(c) -72 Q6(d) -25

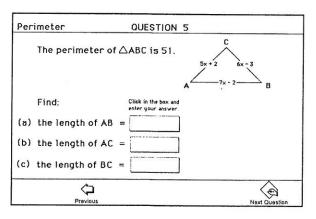


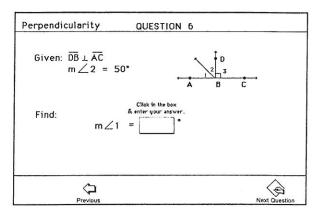


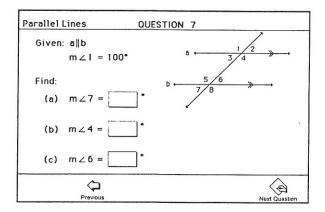


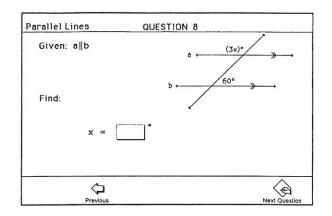


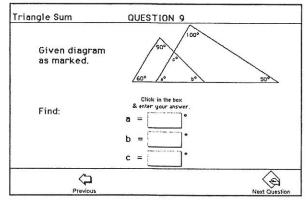


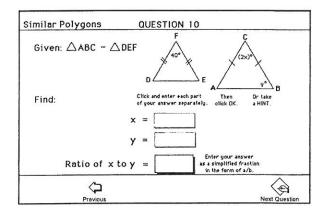


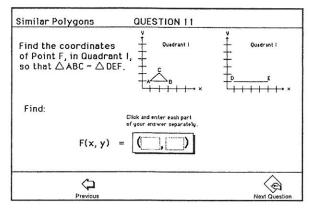


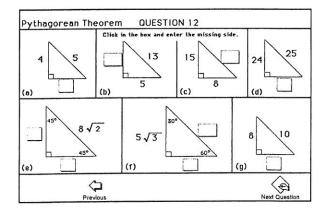


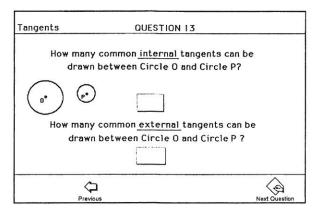


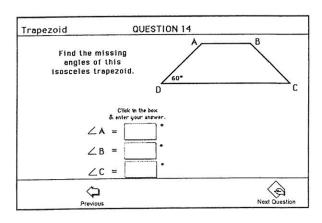


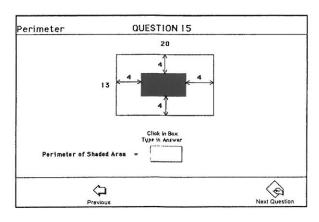


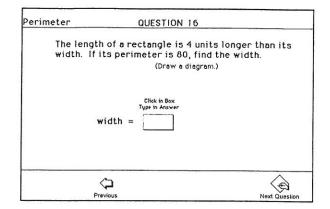


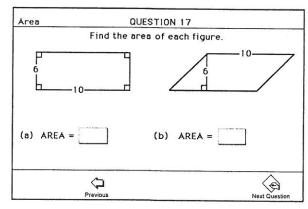


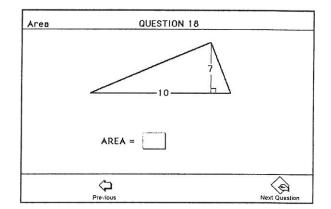


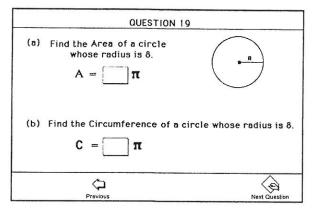


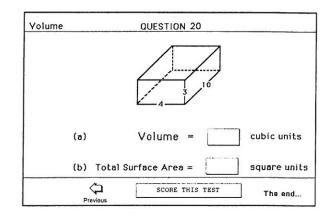


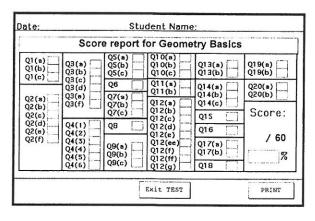


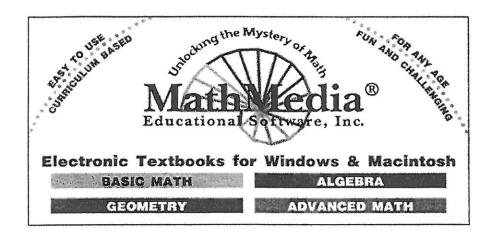












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Geom	etrv	Ba	SICS

Q1(a)	2 8 7	Q7(a) 80 Q7(b) 100 Q7(C) 80	Q14(a) Q14(b) Q14(c)	120 120 60
Q2(a) Q2(b)	120 90	Q8 40	Q15	34
Q2(c) Q2(d)	20 obtuse	Q9(a) 30 Q9(b) 30	Q16	18
Q2(e) Q2(f)	right acute	Q9(c) 120	Q17(a) Q17(b)	60 60
Q3(a) Q3(b)	1 0	Q10(a) 20 Q10(b) 70 Q10(c) 2/7	Q18	35
Q3(c) Q3(d)	2 yes	Q11 (3, 3)	Q19(a) Q19(b)	64 16
Q3(e) Q3(f)	no yes	Q12(a) 3 Q12(b) 12	Q20(a)	120
Q4(1) Q4(2)	ВС	Q12(c) 17 Q12(d) 7	Q20(b)	164
Q4(3) Q4(4)	A B C	Q12(e) 8 Q12(ee) 8 Q12(f) 5		
Q4(5) Q4(6)	A	Q12(ff) 10 Q12(g) 6		
Q5(a) Q5(b) Q5(c)	19 17 15	Q13(a) 2 Q13(b) 2		
Q6	40			