A DEFINITION

A.1 IDENTIFYING PLACE VALUES





The number of cubes is:

Iens Ones	•	Tenths	Hundredths

Ex 2:



The number of cubes is





The number of cubes is



88

....

11

....

Ex 4:



The number of cubes is







The number of cubes is

]	housan	ds	Η	undred	ls	Tens		Ones		Tenths

A.2 WRITING DECIMAL NUMBERS

Ex 6:

	Tens	Ones		Tentl	ns	Hune	iredths	
	2	3		1			2]
The decim	al num	ber is].			
Ex 7:								
	Tens	Ones		Tentl	ns	Hune	dredths	
	2	0	•	0			1	
The decim	al num	ber is].			
Ex 8:								
Hune	dreds	Tens	One	es .	Τe	enths	Hundre	edths
	1	2	0	•		9	9	
The decim	al num	ber is						
Ex 9:								
	Tens	Ones	•	Tentl	ns	Hune	dredths	
	Z	9	•	1			0	I
The decim	al num	ber is						
Ex 10:								
Hune	dreds 9	Tens 1	One 1	es .	Τe	enths 0	Hundre 1	edths
The decim	al num	ber is						
A.3 FIN	DING	THE D	IGI		N PI	LACE	VALUE	
Ex 11: T	he digit	in the l	huno	dredth	s pl	ace of	43.21 is	
Ex 12: T	he digit	in the	tens	place	of §	900.01	is].
Ex 13: T	he digit	in the	tent	hs plac	e o	f 10.04	4 is	
Ex 14: T	he digit	in the l	huno	dredths	s pl	ace of	0.89 is	
A.4 FRACTI	WRITI	NG E N BASE	DEC 10	IMAL		NUM	BERS	FROM
Ex 15: W	Vrite in	decimal $\frac{2}{1}$	form $\frac{3}{0} =$	n:]		
Ex 16: W	7rite in	decimal $\frac{3}{10}$	form $\overline{0} = 0$	n:				
		10	0					

Ex 17: Write in decimal form:



Ex 18: Write in decimal form:



A.5 WRITING DECIMAL NUMBERS FROM EXPANDED FORMS

Ex 19: 4 tens + 1 one + 2 tenths + 5 hundredths =

Ex 20: 2 tens + 3 ones + 5 tenths + 1 hundredths =

Ex 21: 2 tens + 5 hundredths =

Ex 22: 1 hundredth =

A.6 WRITING DECIMAL NUMBERS FROM EXPANDED FORMS II

Ex 23:



Ex 24:



Ex 25:



Ex 26:



A.7 CONVERTING DECIMAL FRACTIONS TO DECIMALS

Ex 27:



Ex 28:



Ex 29:

 $\frac{173}{100} = \boxed{}$

Ex 30:



A.8 CONVERTING DECIMALS TO DECIMAL FRACTIONS

Ex 31:

Ex 32:

Ex 33:

Ex 34:







6.82 =

Ex 35:

0.49 =

B ON THE NUMBER LINE

B.1 IDENTIFYING DECIMAL NUMBERS ON A NUMBER LINE

Ex 36: Find the value of x



Ex 37: Find the value of x



Ex 38: Find the value of x



Ex 39: Find the value of x



 $(\underline{})$



Ex 40: Find the value of x



Ex 41: Find the value of x



C ORDERING

C.1 COMPARING NUMBERS

Ex 42:

$$\Box < \\ 6.22 \quad \Box > \quad 6.3 \\ \Box =$$

Ex 43:

	$\Box <$	
12.8	$\Box >$	11.9
	$\Box =$	

Ex 44:

$$\begin{array}{c} \square < \\ 9.08 \quad \square > \quad 9.09 \\ \square = \end{array}$$

Ex 45:

$$\Box < 120.8 \quad \Box > 99.9 \\ \Box =$$

C.2 COMPARING NUMBERS IN REAL-WORLD PROBLEMS

MCQ 46: Shana threw a shot put 5 times. The distances thrown were:

4.11 m, 4.08 m, 4.4 m, 4.1 m, 4.01 m

Order these distances from shortest to longest. Choose one answer:

 $\Box~4.1~\mathrm{m} < 4.08~\mathrm{m} < 4.01~\mathrm{m} < 4.11~\mathrm{m}$

 $\Box~4.01~{\rm m} < 4.08~{\rm m} < 4.1~{\rm m} < 4.11~{\rm m}$

 \Box 4.11 m > 4.1 m > 4.08 m > 4.01 m

 \Box 4.01 m < 4.08 m < 4.11 m < 4.1 m

MCQ 47: During a qualifying session, a race car driver recorded the following lap times for one circuit:

 $68.08~{\rm s}, 68.11~{\rm s}, 68.09~{\rm s}, 68.07~{\rm s}, 68.1~{\rm s}$

Order from slowest time to fastest time. Choose one answer:

 $\Box~68.07~{\rm s} < 68.08~{\rm s} < 68.09~{\rm s} < 68.1~{\rm s} < 68.11~{\rm s}$

 $\Box~68.11~{\rm s} < 68.1~{\rm s} < 68.09~{\rm s} < 68.08~{\rm s} < 68.07~{\rm s}$

 $\Box~68.1~{\rm s} < 68.09~{\rm s} < 68.08~{\rm s} < 68.07~{\rm s} < 68.11~{\rm s}$

 $\Box~68.07~{\rm s} < 68.09~{\rm s} < 68.08~{\rm s} < 68.11~{\rm s} < 68.1~{\rm s}$

MCQ 48: Alex received the following marks in five different subjects:

12.5, 13.75, 12.25, 13.5, 14

Order these marks from lowest to highest. Choose one answer:

- $\Box \ 12.5 < 13.5 < 13.75 < 14 < 12.25$
- $\Box \ 13.75 < 13.5 < 12.5 < 12.25 < 14$
- $\Box \ 12.25 < 12.5 < 13.5 < 13.75 < 14$
- \Box 12.25 < 12.5 < 13.75 < 13.5 < 14

MCQ 49: In a baking competition, the judges scored five cakes based on presentation, flavor, and creativity. The scores were:

Order these scores from highest to lowest. Choose one answer:

 $\Box 9.2 > 9.0 > 8.8 > 8.7 > 8.5$ $\Box 8.5 > 8.7 > 8.8 > 9.0 > 9.2$ $\Box 8.7 > 8.5 > 9.0 > 8.8 > 9.2$ $\Box 9.0 > 9.2 > 8.5 > 9.0 > 8.8 > 9.2$ $\Box 9.0 > 9.2 > 8.5 > 8.7 > 8.8$

D ROUNDING

D.1 ROUNDING TO THE NEAREST TENTH

Ex 50: Round to the nearest tenth:



 $\mathbf{Ex}\ \mathbf{51:}\ \mathbf{Round}\ \mathbf{to}\ \mathbf{the}\ \mathbf{nearest}\ \mathbf{tenth:}$

 $5.67 \approx$

Ex 52: Round to the nearest tenth:



Ex 53: Round to the nearest tenth:

 $0.95 \approx$



D.2 ROUNDING TO THE NEAREST HUNDREDTH

Ex 54: Round to the nearest hundredth:	
$12.346 \approx$	
Ex 55: Round to the nearest hundredth:	
$0.99199 \approx$	
Ex 56: Round to the nearest hundredth:	
$0.397 \approx$	
Ex 57: Round to the nearest hundredth:	
$122.3421 \approx$	
E MULTIPLYING BY POWERS OF 10	
E.1 MULTIPLYING BY 10	
Ex 58: Calculate $10 \times 5.24 =$	
Ex 59: Calculate $10 \times 10.37 =$	
Ex 60: Calculate $10 \times 0.134 =$	
Ex 61: Calculate $10 \times 20.3 =$	
E.2 MULTIPLYING BY 100	
Ex 62: Calculate $100 \times 3.561 =$	
Ex 63: Calculate $100 \times 0.03 =$	
Ex 64: Calculate $100 \times 10.105 =$	
Ex 65: Calculate 100 × 2.3 =	
F DIVIDING BY POWERS OF 10	
F.1 DIVIDING BY 10	
Ex 66: Calculate $23.2 \div 10 =$	
Ex 67: Calculate $120.3 \div 10 =$	
Ex 68: Calculate $\frac{12.1}{10} =$	
Ex 69: Calculate $\frac{0.12}{10} =$	
F.2 DIVIDING BY 100	
Ex 70: Calculate $23.2 \div 100 =$	
Ex 71: Calculate $12 \div 100 =$	
Ex 72: Calculate $\frac{12.1}{100} =$	
Ex 73: Calculate $\frac{240.1}{100} =$	