Chapter 3: Diagnostic Test

						Name	-			_
We r inst	reco	mmen tor	d th test	nat yo	u work on thi	this	dia	gnos	well you know fractions stic test <i>before</i> your allow yourself about an	3.
with shou	ı se	ctio stud	n re y th	eferen	ces, a	re gi	ven	in t	on this test, together the Answer Section. You for the problems you do	-
1.	Chai	nge	the	impro	per fra	actio	ns t	o mi	xed numbers.	_
	(a)	$\frac{7}{4}$		(b) $\frac{63}{29}$					
									(la)	
									(lb)	_
2.	Cha	nge	the	mixed	number	cs to	imp	rope	r fractions.	-
	(a)	$2\frac{3}{4}$		(b) $15\frac{7}{12}$					
									(2a)	
									(2b)	_
3.	equ:	ival	ent	(have		value	es).	If	irs of fractions are the fractions are not er.	_
	(a)	$\frac{7}{9}$,	$\frac{21}{27}$			(b)	$\frac{5}{9}$,	$\frac{41}{73}$		
									(25)	
									(3a) (3b)	
									(35)	-

4.	State compos		each	of	the	following	g numbers	is	prime	or	
	(a) 31	L	(b)	51	L	(c	71				

(4a)	 _
(4b)	 _
(4c)	

5. Perform the indicated operations.

(a)
$$2 + 3\frac{1}{5}$$

(b)
$$4\frac{2}{3} + 3\frac{1}{2}$$

(5a))	
(5b))	

(c)
$$\frac{5}{6} \times \frac{3}{20}$$
 (d) $\frac{2}{3} \times 111$

(d)
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(5d)_____

(e)
$$\frac{3}{8} \div \frac{9}{16}$$

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 (f) $4\frac{1}{5} \times 2\frac{1}{7}$

(g)
$$2\frac{2}{9} \div 3\frac{1}{3}$$

(h)
$$\frac{\frac{5}{8}}{\frac{5}{6}}$$

(5g)_____

(i)	3 +	<u>5</u> 8
	4-	<u>1</u> 3

(5i)	
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- 6. Reduce to lowest terms.
 - (a) $\frac{30}{42}$
- (b) $\frac{180}{540}$

(6a)	 _	
(6b)		

7. Use Euclid's Algorithm as an aid to reduce this fraction to lowest terms.

 $\frac{217}{248}$



8. Add: $27\frac{2}{9}$ $18\frac{1}{2}$ $4\frac{3}{4}$ $10\frac{7}{8}$

(8)	
	 _

9. Subtract: $124\frac{2}{3}$ $-17\frac{4}{5}$

(9)____

10.	Perform	the	operations	in	the	correct	order.
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(a) $6 + 2 \times \frac{3}{4}$

(10a)_____

(b) 4 • $\left(\frac{3}{4}\right)^2 - \frac{1}{2}$

(10b)_____

(c) $\frac{2}{3} \div \frac{4}{3} \cdot \frac{2}{5}$

- (10c)____
- 11. When a $1\frac{1}{8}$ pound steak was trimmed of fat, it weighed $\frac{3}{4}$ pound. How much of the steak was fat?

11)_____

12. How many tablets, each containing 3 milligrams of medicine, must be used to make up a $7\frac{1}{2}$ -milligram dosage?

2)

13. How many square yards of carpet will be needed to carpet a rectangular room that is $7\frac{1}{2}$ yards long and $4\frac{2}{3}$ yards wide?

(13)