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Ch-9

Fractions

1. (a) unlike
(b) mixed number
(c) proper fraction
(d) 17
(e) 1
(f) 5
(g) 8 halves
(h) proper
(i) like
(j) equivalent

2(a) $\frac{13 \times 25}{5} = 75$

$5\overline{)75}$ → 15

$\frac{15}{5}$

(b) $2\overline{)19}$ → 9, remainder 1

$9\frac{1}{2}$

(c) $6 \times 9 = 54 + 2 = \frac{56}{9}$

(d) $\frac{3 \times 5 = 15}{4 \times 5 = 20}$ $\frac{2 \times 4 = 8}{5 \times 4 = 20}$ $\frac{15}{20}$ $\frac{8}{20}$

(e) $\frac{18 \div 2 = 9}{42 \div 2 = 21}$ $\frac{9 \div 3 = 3}{21 \div 3 = 7}$

3.a $2 \times 13 = 26 + 5 = 31$ $\frac{31}{13}$

~~$7 \times 13 = 5$~~ $3 \times 26 = 78 + 9 = 87$ $\frac{87}{26}$

$\frac{31}{13} + \frac{7}{13} + \frac{87}{26}$

13	13, 13, 26
2	1 1 1
	1 1 1

1372 26

$\frac{31 \times 2 = 62}{13 \times 2 = 26}$ $\frac{62}{26}$ +

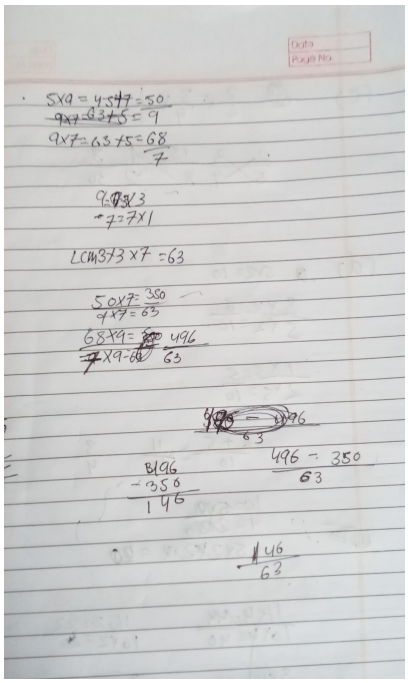
$\frac{7 \times 2 = 14}{13 \times 2 = 26}$ $\frac{14}{26}$ +

$\frac{7 \times 1 = 7}{26 \times 1 = 26}$ $\frac{7}{26}$

31
×2
62

$\frac{62 + 14 + 7}{26} = \frac{83}{26}$

① 62
14
+ 7
83



$5\times9=45+7=50$

$9\times7=63+5=68$

$\frac{68}{7}$

$9=3\times3$

$7=7\times1$

LCM $3\times3\times7=63$

$50\times7=350$

$9\times7=63$

$68\times9=612$

$7\times9=63$

$\frac{496}{63}$

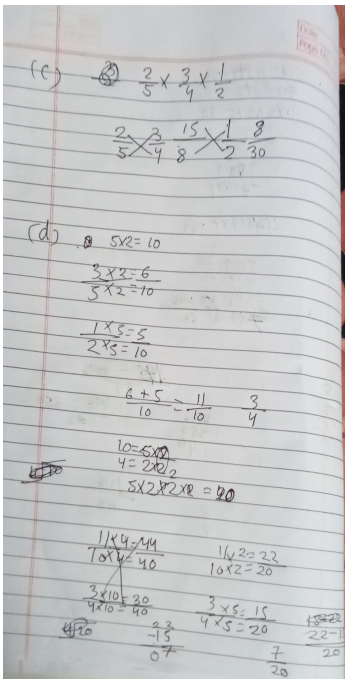
$\frac{496}{63}$

$496-350$

$\frac{496}{-350}$

146

$\frac{146}{63}$



(c) $\frac{2}{5}\times\frac{3}{4}\times\frac{1}{2}$

$\frac{2}{5}\times\frac{3}{4}=\frac{15}{8}\times\frac{1}{2}=\frac{8}{30}$

(d) $5\times2=10$

$3\times2=6$

$5\times2=10$

$1\times5=5$

$2\times5=10$

$\frac{6+5}{10}=\frac{11}{10}$ $\frac{3}{4}$

$10=5\times2$

$4=2\times2$

$5\times2\times2\times2=40$

$11\times4=44$

$10\times4=40$

$11\times2=22$

$10\times2=20$

$\frac{3\times10}{4\times10}=\frac{30}{40}$

$\frac{3\times5}{4\times5}=\frac{15}{20}$

-15

07

$\frac{7}{20}$

(e) $3\frac{1}{2}$ $3 \times 2 = 6 + 1 = \frac{7}{2}$

$\frac{7}{2}$ $\frac{7}{7}$ $\frac{7}{2} \times \frac{1 \cdot 1}{7 \cdot 2}$

The length of each piece is $\frac{1}{2}$ m