



The National  
Orthodox School  
Shmaisani

# Grade Eight CS

## Chapter 7 Fractions and decimals

### Student Book

#### Pages 100+101

#### Exercise 7A

- a) 1,3,5,15  
b) 1,2,3,4,6,8,12,24  
c) 1,2,3,5,6,10,15,30  
d) 1,5,25
- HCF = 12
- Yes, it is correct.
- HCF = 12

Factor tree method is easier.

- a) HCF = 10  
b) HCF = 4  
c) HCF = 6  
d) HCF = 18

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6. a) HCF = 12

$$\frac{24}{36} = \frac{2}{3}$$

7. a)  $\frac{10}{21}$

8. HCF = 28

28 m (Length of side of each square plot).

9. True statement:

C) My number could be odd or even.

10. HCF = 60

60 cm

11.

- only two factors
- 1,2,4 and 8 - composite
- square - an odd
- prime
- an even
- factor

## Pages 103+104+105

### Exercise 7B

1. a)  $\frac{1}{10}$  smaller

d)  $2\frac{2}{3}$  bigger

2. a)  $4\frac{1}{2}$

c)  $2\frac{13}{16}$

e)  $6\frac{1}{4}$

g)  $15\frac{5}{6}$

3. a)  $\frac{9}{11}$  bigger

d)  $\frac{2}{5}$  smaller

4.  $3\frac{13}{36}$

5. a)  $\frac{1}{2}$

c)  $2\frac{5}{8}$

e)  $2\frac{16}{25}$

g)  $2\frac{23}{90}$

6. a)  $5 \frac{5}{6}$  m

c)  $24 \frac{8}{15}$  ml

e)  $\frac{1}{4}$

g)  $\frac{49}{64}$

7.  $\frac{4}{5}$  kg left

8.  $11 \frac{9}{10}$  cm<sup>2</sup>

9.  $12 \frac{4}{9}$  m

10. a) 219 bottles.

b)  $108 \frac{1}{4} \div 164 \frac{1}{2} = \frac{433}{658}$

12. a)  $-3 \frac{7}{16}$

b) -1

## Pages 106+107

### Exercise 7C

3. a)  $9 \frac{4}{13}$

4. a)  $2 \frac{1}{4}$

c) 19

d)  $1 \frac{25}{48}$

g)  $5 \frac{7}{15}$

6.  $35 \text{ m}^2$

$$35 \div 5 = 7 \text{ cans of paint}$$

$$7 \times 4.50 = \$ 31.50$$

7. b)  $\frac{27}{32}$

d)  $1 \frac{2}{3}$

g)  $1 \frac{23}{26}$

j)  $\frac{7}{20}$

## Page 109

### Exercise 7D

1. a)  $0.\dot{6}$

b) 7.125

c)  $0.8\dot{3}$

d) 5.68

e)  $0.1\dot{9}$

f)  $0.58\dot{3}$

2. a)  $0.\dot{5}$

d)  $0.0\dot{8}$

e)  $0.2\dot{5}$

3.

Recurring Decimals	Terminating Decimals
$\frac{1}{3}$	$\frac{9}{12}$
$\frac{11}{9}$	$\frac{8}{250}$
$\frac{4}{7}$	$\frac{4}{25}$
$\frac{11}{14}$	$\frac{3}{6}$
$\frac{11}{12}$	$\frac{423}{1000}$
$\frac{6}{17}$	$\frac{13}{26}$
$\frac{5}{18}$	$\frac{9}{36}$
$12\frac{2}{3}$	$\frac{15}{8}$
$\frac{115}{99}$	$6\frac{103}{125}$

4. a)  $0.\dot{4}$

b)  $0.2\dot{3}$

c)  $0.87\dot{2}$

d)  $0.546\dot{7}$

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## Page 110

### Exercise 7

3.  $1\frac{4}{5}$  m

4.  $2\frac{1}{2}$  hours

5.  $1\frac{1}{4} \div 6\frac{1}{2} = \frac{5}{26}$

6. 6 bags

7. 8 cans

8. 3 stripes

9. a)  $3\frac{1}{4} \div 8\frac{1}{2} = \frac{13}{34}$

b)  $8\frac{1}{2} - 3\frac{1}{4} = 5\frac{1}{4}$  hours

$$5\frac{1}{4} \div 24 = \frac{7}{32}$$

10. \$280 he spends on rent.



# Homework Book

## Word Problems

### Page 48

3. Area =  $8 \frac{6}{35} \text{ cm}^2$

4. 53 bottles

### Page 49

3. Area =  $21 \frac{3}{4} \text{ m}^2$

$$21 \frac{3}{4} \div 8 = 2 \frac{23}{32} \longrightarrow 3 \text{ cans}$$

$$3 \times 8.50 = \$25.50$$