



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

2. $HCF = 12$

3. Yes, it is correct.

4. $HCF = 12$

Factor tree method is easier.

5. 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. $11 \frac{9}{10}$ cm²

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

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

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