FRACTIONS EXAM GRADE 7 You will have 60 minutes to complete this exam. The test is out of 70 marks. **Assessment Areas**: There are five sub modules to this course Simplifying and Converting Fractions Arranging Fractions and Adding Fractions · Subtracting, Multiplying and Dividing Fractions Comparing Quantities • Converting fractions to percentages 1. Simplify the following fractions if possible (2)b) $\frac{4}{64}$ (1) c) $\frac{10}{18}$ (1)

d)
$$\frac{14}{98}$$
 (2)

e)
$$\frac{66}{3}$$
 (1)

2. Arrange in order of largest to smallest

$$\frac{6}{9} \quad \frac{16}{32} \quad \frac{24}{12} \quad \frac{5}{7} \quad \frac{3}{5} \tag{3}$$

3. Convert these improper fractions to mixed fractions

a)
$$\frac{16}{4}$$
 (1)

b)
$$\frac{126}{11}$$
 (2)

c)
$$\frac{14}{5}$$
 (1)

d)
$$\frac{49}{12}$$
 (1)

4. Convert these mixed fractions to improper fractions

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

b)
$$3\frac{12}{11}$$
 (1)

c)
$$6\frac{2}{5}$$
 (1)

d)
$$7\frac{2}{4}$$

(2)

5. Circle the larger fraction

a)
$$2\frac{1}{3}$$
 or $2\frac{3}{6}$

(2)

b) Five sixteenths or seven twelfths

(2)

c) Seven eights or nine elevenths

(3)

6. Add the following fractions together

a)
$$\frac{2}{4} + \frac{6}{3}$$
 (2)

b)
$$\frac{4}{6} + \frac{5}{3}$$
 (1)

c)
$$\frac{10}{12} + \frac{4}{24}$$
 (3)

d)
$$\frac{4}{8} + \frac{1}{3}$$
 (1)

e)
$$\frac{5}{2} + \frac{4}{12}$$
 (2)

7. Subtract the following fractions from each other

a)
$$\frac{2}{4} - \frac{1}{3}$$
 (2)

b)
$$\frac{4}{6} - \frac{2}{3}$$
 (1)

c)
$$\frac{10}{12} - \frac{1}{8}$$
 (3)

d)
$$\frac{4}{8} - \frac{1}{4}$$
 (1)

8. Multiply the following fractions from each other

a)
$$\frac{1}{4} * \frac{1}{6}$$
 (2)

b)
$$\frac{4}{6} * \frac{2}{3}$$
 (1)

c)
$$\frac{10}{12} * \frac{1}{8}$$
 (3)

d)
$$\frac{2}{3} * \frac{1}{4}$$
 (1)

e)
$$\frac{5}{9} * \frac{2}{3} * \frac{2}{1}$$

(3)

9. Solve the following

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

(2)

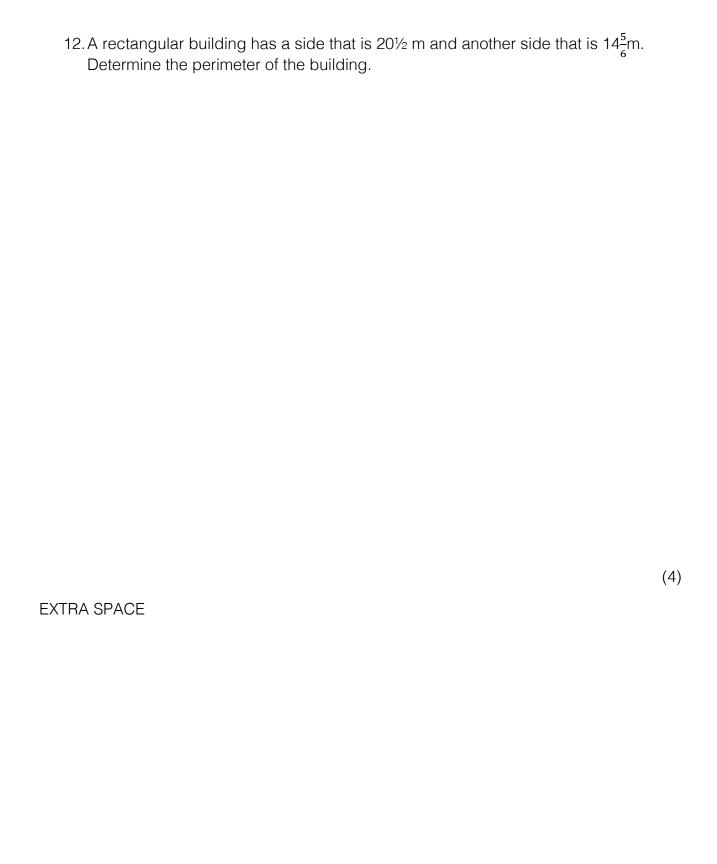
b)
$$\frac{4}{8} \div \frac{2}{4}$$

(2)

c)
$$\frac{10}{12} \div \frac{1}{8}$$

(3)

10. Bill offers Sarah 2/5 of a 250g chocolate block, whereas Peter offers Sarah 2/3 of a 180g block of chocolate. Which block should Sarah have in order to consume the most chocolate?	
(3)	
11. Robert is charged \$144 per water tank from "Super Water". If he consumes just 2/12 of that amount, what will he be charged? What percentage of the water tank will he consume assuming that \$144 provides a full tank?	



Mathematical Knowledge and Understanding How well a student answers a question and applies mathematical skills A – exceptional, B – high standard, C – satisfactory, D – developing, E – poor

Mathematical Communication

How well a student shows lines of reasoning and demonstrates an understanding of algorithms, formulae and procedure

A – exceptional, B – high standard, C – satisfactory, D – developing, E – poor