UNIT 7 Ratio and Proportion

Mental Tests

M 7.1 Standard Route (no calculator)	M 7.1	Standard	Route	(no calculator)
--------------------------------------	-------	----------	-------	-----------------

1.	Simplify the ratio	3:6.	(1	l :	2))
----	--------------------	------	----	-----	----	---

2. Simplify the ratio 4: 20. (1:5)

3. Simplify the ratio 5:40. (1:8)

4. Simplify the ratio 6:8. (3:4)

5. If 10 bars of chocolate cost £3, how much does 1 bar cost? (30p)

6. If 2 tickets for a swimming session cost £5, how much do 6 tickets cost? (£15)

7. If 5 packets of sweets cost £1, how much do 2 packets cost? (40p)

8. If £1 is worth 3 German Marks, convert:

(a) £20 to German Marks, (60 DM)

(b) £2.50 to German Marks, (7.5 DM)

(c) 45 German Marks to pounds. (£15)

M 7.2 Academic Route (no calculator)

1.	Simplify the ratio	4:20.	(1:	5)

2. Simplify the ratio 6:15. (2:5)

3. Simplify the ratio 14:24. (7:12)

4. If 8 bars of chocolate cost £2.40, how much do 3 bars cost? (90p)

5. If 5 tickets for a swimming session cost £6, how much do 3 tickets cost? (£3.60)

6. Share £12 in the ratio 1:2. (£4, £8)

7. Share £18 in the ratio 1:2:3. (£3, £6, £9)

8. If £1 is worth 3 German Marks, convert:

(a) £22 to German Marks, (66 DM)

(b) £7.50 to German Marks, (22.5 DM)

(c) 57 German Marks to pounds. (£19)

(c)

(£19)

UNIT 7 Ratio and Proportion

209 Danish Krone to pounds.

Mental Tests

M 7 3	Express	Route	(no	calculator)
141 / .3	TADI CSS	Noute	(no	caiculator)

1.	Simplify the ratio 6:42.	(1:7)
2.	Simplify the ratio 20:45.	(4:9)
3.	Simplify the ratio 63:81.	(7:9)
4.	If 7 packets of sweets cost £2.80, how much do 5 packets cost?.	(£2)
5.	If you travel 100 miles at 60 mph, how long does your journey take?	(1 hr 40 mins)
6.	Share £49 in the ratio $1:2:4$.	(£7, £14, £28)
7.	Share £56 in the ratio $5:2:7$.	(£20, £8, £28)
8.	If £1 is worth 11 Danish Krone, convert:	
	(a) £3.50 to Danish Krone,	(38.5 Dkr)
	(b) 275 Danish Krone to pounds,	(£25)