MATHEMATICS PRACTICE ASSESSMENT

Parallel Form - New Questions, Same Concepts

Name: _____ **Date:** _____ **Score:** _____ / 100

Section 1: Weight & Mass Word Problems

Q1. Today 4 pumpkins were sold weighing 1.2kg, 850g, 2.1kg, and 920g. What was the total weight (in kg) of pumpkins sold today?

Q2. How many 500g bags of rice can be filled from a 40 kg sack of rice?

Q3. Calculate the weight (in tonnes) of cement a builder goes through if they buy 45 bags of cement in a month. Each bag weighs 40kg.

Q4. If a 40kg bag of cement costs $18.50, how much has the builder spent on cement in total?

Q5. During the week, steel beams weighing 350 kg, 1.4t, 0.9t, 720kg, and 1.05t were transported on a truck. Calculate the total weight in kilograms.

Section 2: Duration Problems

Find the missing start time, end time, or duration. Show your working clearly.

1. A movie starts at 4:20 pm and ends at 6:15 pm. How long is it? Answer: _____	**2.** A work shift starts at 7:45 am and ends at 4:30 pm. How long is the shift? Answer: _____
3. A concert starts at 7:30 pm and runs for 2h 45min. What time does it finish? Answer: _____	**4.** A train departs at 09:15 and arrives at 14:50. How long is the journey? Answer: _____
5. A meeting finishes at 3:10 pm and lasted 1h 40min. What time did it start? Answer: _____	**6.** Sarah started reading at 8:15 pm and finished the chapter at 9:05 pm. How long did she read? Answer: _____

Section 3: Understanding Precision

Remember: 1. Calculate the answer. 2. Identify the least precise measurement. 3. Round the final answer appropriately.

1. A jug contains **2.5 L** of juice. Another **0.855 L** is added. Total volume = _____ Final answer = _____	**2.** A cyclist rides **14.6 km** in the morning and **8.25 km** in the afternoon. Total distance = _____ Final answer = _____
3. A box weighs **4.125 kg**. The items inside weigh **12.4 kg**.	**4.** A jeweler mixes **8.45 g** of gold with **2.1 g** of silver.

Total mass = _____ Final answer = _____	Total mass = _____ Final answer = _____

Section 4: Geometry - Perimeter and Area

Use π = 3.14 or the π button on your calculator. Give answers to 1 decimal place where necessary.

1. Calculate the perimeter of a rectangle with length 12 cm and width 6.5 cm.

2. Calculate the circumference of a circle with a diameter of 20 cm.

3. Calculate the perimeter of a semi-circle with a radius of 8 cm. (Remember to include the straight edge).

4. Find the area of a parallelogram with a base of 15 cm and a perpendicular height of 8 cm.

5. Calculate the area of a trapezium. The parallel sides are 10 cm and 16 cm, and the perpendicular height is 6 cm.

6. Find the area of a kite with diagonals measuring 20 cm and 12 cm.