MEASURES - LENGTH

Target Board

| 1m | ½ m | 90cm | 25cm | 0.10cm |
|-------|-------|-------|-------|--------|
| 20cm | 2m | 10cm | 3.20m | 50cm |
| ¼ m | 1 ¼ m | 2 ½ m | 1.30m | 99cm |
| 1.10m | 0.1m | 0.60m | 85cm | 0.70m |

- 1. What is the longest measurement on target board? How many centimetres altogether?
- 2. What is the shortest measurement? How do you know?
- 3. What is the difference between the longest and shortest measurement?
- 4. What must I add to each measurement to make a metre?
- 5. Can you find matching pairs of measurements?
- 6. Which measurements are less than 1 metre/ 1/2 metre/ 1/4 metre?
- 7. Which measurements are more than 1 metre? By how much?
- 8. Change all the measurement to centimetres?
- 9. Add all of the measurements in the first/second/third row. How did you do it? Does anybody have a different way of adding these lengths mentally?
- 10. Rename the measurements as a decimal fractions.
- 11. Find a measurement that is greater than 1/4 metre.

Source: PDST.ie

For the following worksheets- Use MatheMagic Chapters 'Length', Weight' and 'Capacity' to help you. Try your best and pick the ones you can do.

*Remember 100cm = 1m

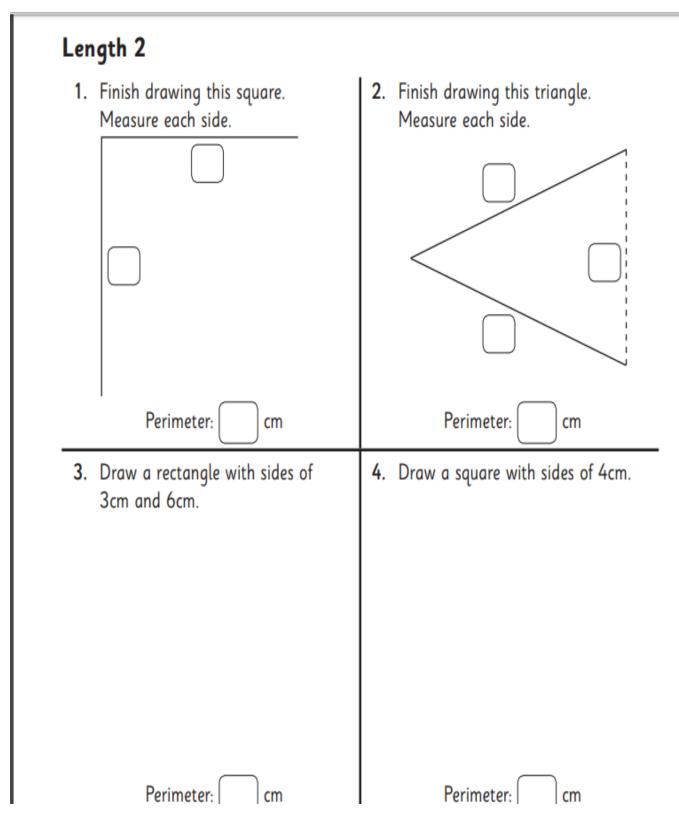
| Length - | Measuring | Grid 1 |
|----------|-----------|--------|
| _ | | |

| | <u> </u> | | | |
|---|---------------|----|----------|---------|
| | Object | cm | Fraction | Decimal |
| 1 | Pencil | cm | m | · m |
| 2 | Pencil case | cm | m | · m |
| 3 | Lunchbox | cm | m | · m |
| 4 | Shoe | cm | m | · m |
| 5 | Width of desk | cm | m | · m |
| 6 | | cm | m | · m |

*Remember: Perimeter = Add all sides.

Square = All sides are equal length.

Rectangle = Opposite sides are equal length.



22. Length

Mental Computation Write as centimetres (cm). 1. 1m 28cm 2. 2m 34cm 3. 4m 76cm 4. 8m 97cm 7. 3.92m 5. 1.34m 6. 2.68m 8. 6.75m Write as metres and centimetres (m and cm). 9. 168cm 10. 293cm 12. 765cm 11. 408cm 13. 3¹/₄m 16. 5³/₁₀m 14. 4¹/₂m 15. 6³/₄m Write as metres using the decimal point. 17. 137cm 18. 246cm 20. 586cm 19. 308cm Write as metres. 24. 4^q/₁₀km 22. 1⁷/₁₀km 23. 3¹/₂ km 21. 210km 25. 2km 350m 26. 1km 870m 27. 3km 690m 28. 5km 830m 29. 2-46km 30. 3.58km 31. 4.96km 32. 6.72km Write as km using the decimal point. 33. 2750m 34. 1970m 35. 3420m 36. 4690m 37. 2km 340m 38. 3km 720m 39. 4km 560m 40. 6km 970m

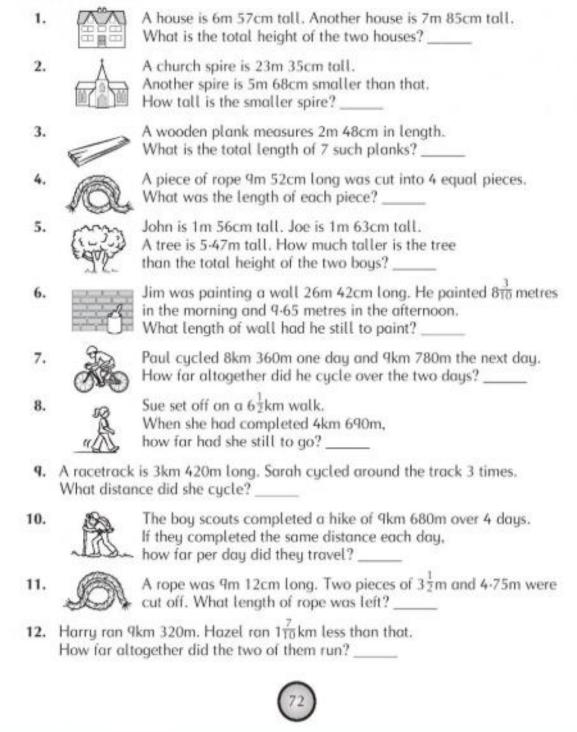
Written Computation

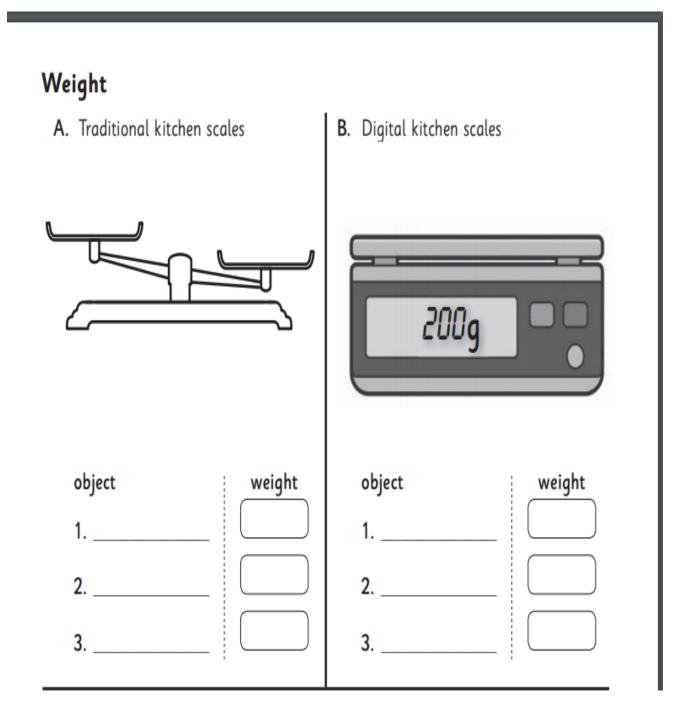
| 1. | 3-26m | 2. 4·28m | 3. 3m 28cm | 4. 3.45km | 5. 1.74km |
|-----|--------------|----------------------|--------------------|--------------------------|--------------------|
| | 4-18m | 3·95m | 1m 46cm | 2.68km | 3.49km |
| | + 1-53m | + 0·68m | + 2m 79cm | + 1.96km | + 4.36km |
| 6. | 19-52m | 7. 23.48m | 8. 62-93m | 9. 27-45km | 10. 83·24km |
| | - 8-79m | - 14.63m | - 37-56m | – 18-67km | – <u>47·96km</u> |
| 11. | 2·16m × 4 | 12. 4.38m × 3 | 13. 5.78m × 6 | 14. 9.34km × 7 | 15. 6·84km × 8 |
| 16. | 3 5·28m | 17. 5 9.35m | 18. 7 8.96m | 19. 6 5.94km | 20. 96.93km |

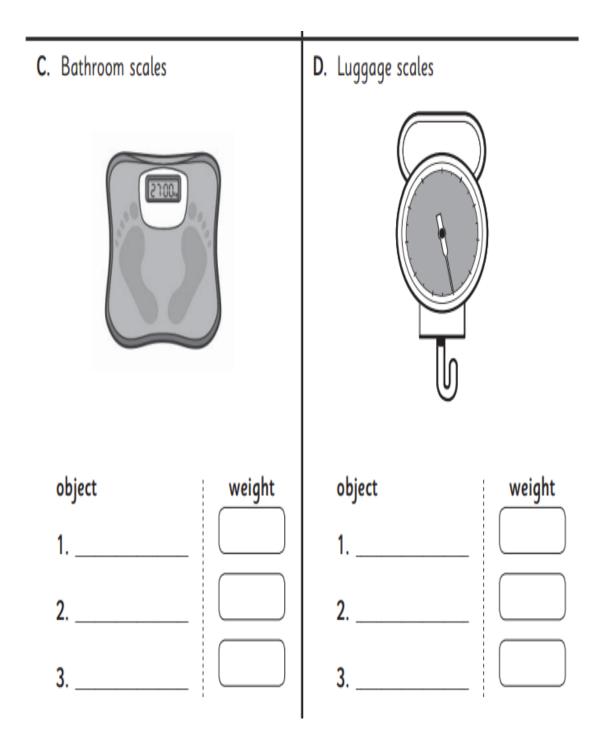
Before doing these, write them in decimal form.

| 21. | $3m 38cm + 1\frac{1}{2}m + 4m 87cm$ | |
|-----|---|--|
| 22. | $2m 76cm + 1\frac{3}{10}m + 5m 43cm$ | |
| 23. | 1km 360m + 2 ¹ / ₂ km + 3km 590m | |
| 24. | 4km 720m + 3 ¹ / ₁₀ km + 5km 780m | |
| 25. | $(8m 72cm - 3\frac{q}{10}m) \times 4$ | |
| 26. | (9km 240m – 3km 570m) × 5 | |
| 27. | (7m 80cm – 2m 35cm) ÷ 5 | |
| 28. | 9km 560m – 3km 140m) ÷ 6 | |
| 29. | $(2.34m + 3m 45cm + 1\frac{7}{10}m) \times 7$ | |
| 30. | $(3\text{km } 280\text{m} + 4.57\text{km} + 1\frac{3}{10}\text{km}) \times 8$ | |
| | 71 | |

Written Problems







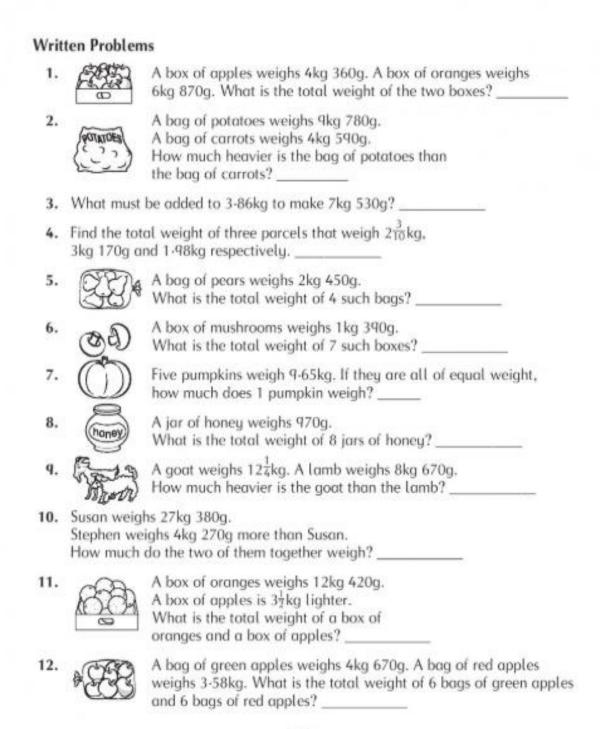
| . Wi | rite as gramme | s (q). | | | | | |
|------|------------------------|----------|-----------------------|------------------|-----------------------|-------|------------------------------|
| (a) | 1kg 200g | (b) | 1kg 280g | (c) | 1kg 790g | (d) | 2kg 860g |
| (e) | $1\frac{1}{4}$ kg | (f) | $1\frac{1}{2}$ kg | (g) | $1\frac{3}{4}$ kg | (h) | $1\frac{1}{10}$ kg |
| . W | rite as gramme | 5. | | | | | |
| (a) | 1-35kg | (b) | 1-86kg | (c) | 2-98kg | (d) | 4-67kg |
| (e) | 3-7kg | (f) | 3-07kg | (g) | 5-4kg | (h) | 5-04kg |
| . W | rite as kilogra | nmes us | sing the decin | nal poi | nt. | | |
| (a) | 1260g | (b) | 1590g | (c) | 2380g | (d) | 4960g |
| (e) | 1kg 190g | (f) | 2kg 730g | (g) | 3kg 560g | (h) | 6kg 240g |
| . w | rite as kilogra | nmes ar | nd grammes. | | | | |
| (a) | 1870g | (b) | 2360g | (c) | 4820g | (d) | 5740g |
| (e) | $2\frac{1}{4}$ kg | (f) | $3\frac{1}{2}$ kg | (g) | $4\frac{3}{10}$ kg | (h) | 6 <u>7</u> 6 <u>10</u> kg |
| . wi | nat must be ad | ded to a | each of these | to mak | ke 1kg? | | |
| (a) | 850g | (b) | 720g | (c) | 680g | (d) | 540g |
| (e) | 0-75kg | _ (f) | 0-2kg | (g) | 0-65kg | (h) | 0.7kg |
| . W | rite as kilogra | nmes ar | nd fractions a | f a kil a | ogramme. | | |
| | 1500g | | | | 이지 않는 것 같은 것 같아요. ^^^ | _ (d) | 4750kg |
| | | | | | 3250g 3070g | | |

| Written Comp | utation | | | |
|--------------|-------------------|-------------------|---------------------|---------------------|
| 1. 2·36kg | 2. 1.87kg | 3. 3-46kg | 4. 2-83kg | 5. 3-96kg |
| 1·58kg | 2.59kg | 1-58kg | 3-54kg | 1-78kg |
| + 2·65kg | + 3.68kg | + 2-94kg | + 1-38kg | + 2-64kg |
| 6. 16.58kg | 7. 26-32kg | 8. 47.14kg | q. 73-46kg | 10. 90-27kg |
| 7.83kg | _ 9-57kg | - 19.68kg | – 28-73kg | - 47-39kg |
| 11. 3·24kg | 12. 2.47kg | 13. 4.93kg | 14. 9.76kg | 15. 8-69kg |
| × 5 | × 4 | × 6 | × 3 | × 7 |
| 16. 3 7.65kg | 17. 4 9.76kg | 18. 6 7.92kg | 19. 5 9.65kg | 20. 8[8-96kg |

Before doing these, write them in decimal form.

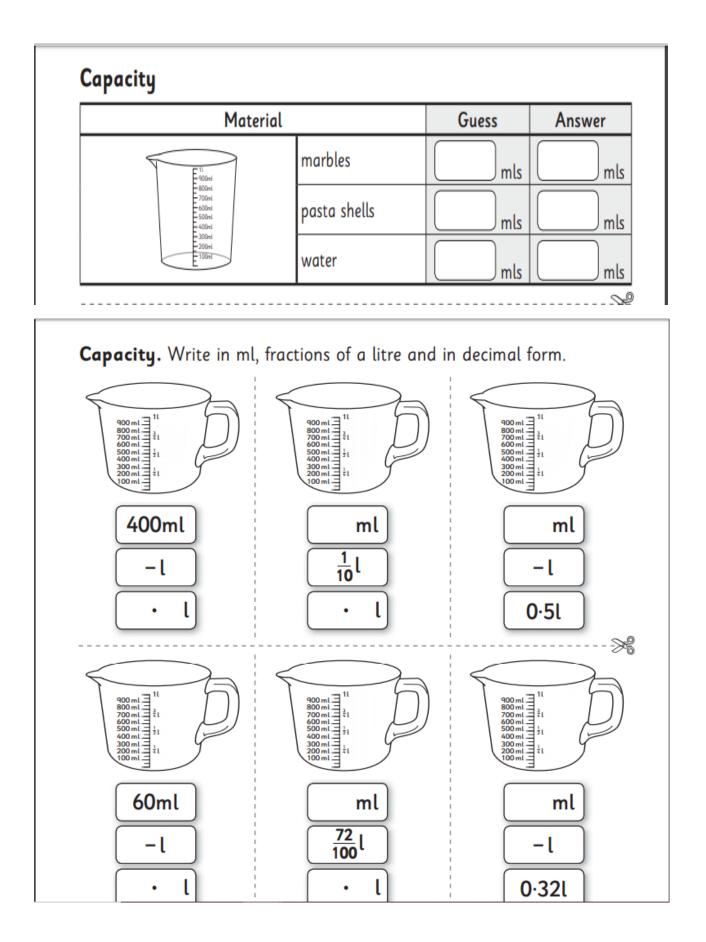
| 21. | $2 \text{kg} 420 \text{g} + 3\frac{1}{2} \text{kg} + 1750 \text{g}$ | |
|-----|---|--|
| 22. | $1 \text{kg} 580 \text{g} + 2360 \text{g} + 1\frac{1}{4} \text{kg}$ | |
| 23. | 2 ³ / ₁₀ kg + 1900g + 3kg 490g | |
| 24. | $2480g + 1kg 700g + 2\frac{7}{10}kg$ | |
| 25. | $(9 \text{kg } 430 \text{g} - 6 \frac{9}{10} \text{kg}) \times 3$ | |
| 26. | (8350g – 4kg 860g) × 5 | |
| 27. | (9kg 240g – 3kg 680g) ÷ 2 | |
| 28. | (8 ¹ / ₄ kg – 2kg 700g) ÷ 5 | |
| 29. | $(2.58\text{kg} + 3\text{kg} + 60\text{g} + 1\frac{1}{10}\text{kg}) \times 4$ | |
| 30. | $(1 \text{ kg } 790 \text{ g} + 3\frac{7}{10} \text{ kg} + 2.17 \text{ kg}) \times 6$ | |
| | | |

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*Remember 1,000ml = 11



| | | Computation | an (mal) | | | | | |
|----|-----|-------------------------------------|-----------------|----------------------------|--------|-----------------|-----|------------------|
| 1. | | ite as millilitr 11 300ml | (b) | 1l 460ml | (c) | 1l 840ml | (d) | 2l 670m |
| | (e) | $\frac{1}{14l}$ | (f) | $\overline{1\frac{1}{2}l}$ | (g) | $\frac{1}{1}$ | (h) | $\frac{3}{10}$ |
| 2. | (a) | 1-451 | (b) | 1.78l | (c) | 2.631 | (d) | 3.971 |
| | (e) | 4-3l | (f) | 4-031 | (g) | 6-8l | (h) | 6-08l |
| 3. | Wr | ite as litres , us | sing the | decimal point | | | | |
| | (a) | 1230ml | (b) | 1460ml | (c) | 2370ml | (d) | 5780ml |
| | (e) | 1l 180ml | (f) | 2l 390ml | (g) | 4l 840ml | (h) | 7l 960m |
| 4. | Wr | ite as litres an | d millil | itres. | | | | _ |
| | (a) | 1490ml | (b) | 2560ml | (c) | 3870ml | (d) | 5960ml |
| | (e) | $\overline{2\frac{1}{2}i}$ | (f) | 341 | (g) | $3\frac{3}{4}l$ | (h) | $5\frac{7}{10}l$ |
| 5. | Wh | at must be ad | ded to e | each of these to | o make | 112 | | |
| | | 940ml | | 720ml | | 530ml | (d) | 460ml |
| | (e) | 0.71 | (f) | 0-851 | (g) | 0.41 | (h) | 0-65l |
| 6. | Wr | ite as litres an | d fracti | ons of a litre. | | | | |
| | (a) | 2500ml | (b) | 4250ml | (c) | 3750ml | (d) | 1700ml |
| | (e) | 4300ml | (f) | 2900ml | (g) | 1090ml | (h) | 2370ml |

| 1. | 2·37l 3·68l + 1·50l | 2. | 1.94l 4.38l + 1.87l | 3. | 2-53l 3-84l + 2-79l | 4. | 3-671 4-981 + 1-061 | 5. | 2-931 3-871 + 2-761 |
|-----|---------------------------|-----|---------------------------|-----|---------------------------|-----|---------------------------|-----|---------------------------|
| 6. | 26.72l - 9.84l | 7. | 34-35l - 8-67l | 8. | 53-16l - 18-57l | 9. | 71-46l - 37-69l | 10. | 80-321 - 26-591 |
| 11. | 2-63l × 5 | 12. | 4.76l × 7 | 13. | 6-98l × 8 | 14. | 7-84l × 6 | 15. | 8-76l × 9 |
| 16. | 3[8·76l | 17. | 5 9.351 | 18. | 6 8-641 | 19. | 7 9-66l | 20. | 8 9-52l |

Before doing these, write them in decimal form.

21. $2l 340ml + 1870ml + 3\frac{1}{2}l$

22. 1l 790ml + $4\frac{1}{2}$ l + 2860ml

23. 2⁷/₁₀l + 1800ml + 3l 190ml

24. 2930ml + 1l 700ml + $3\frac{9}{10}$ l

25. $(9l \ 280ml - 4\frac{7}{10}l) \times 4$

26. (8320ml - 31 650ml) x 7

27. (9l 240ml - 4380ml) ÷ 2

28. (8¹/₄l − 2l 800ml) ÷ 5

29. $(2.37l + 1\frac{3}{10}l + 3l 740ml) \times 3$

30. (11 860ml + $2\frac{7}{10}$ l + 3-68l) × 7

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Written Problems

