Assessment Test for Singapore Primary Mathematics 3B
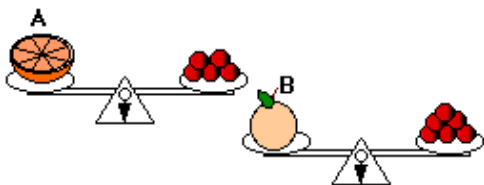
This test covers material taught in Primary Mathematics 3B
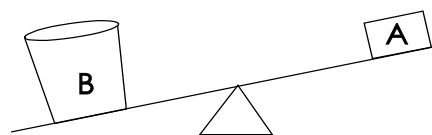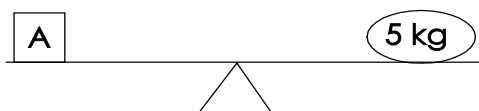(http://www.singaporemath.com/)

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1. Which is heavier, A or B? _____   [1]

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2. Fill in "heavier than", "lighter than" or "as heavy as".

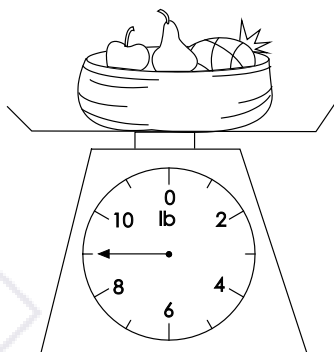   (a) A is _____ 5 kg.   [1]

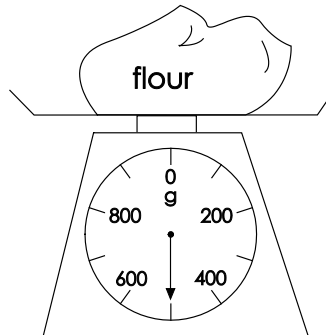   (b) A is _____ B.   [1]

    (c) B is _____ 5 kg.   [1]

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3. Study the scales and write the correct weight.

    (a)   (b)   [2]

    _____ lb   _____ g

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4. Fill in the blanks with kg or g.

   (a) The watermelon weighs about 3 _____. [1]

   (b) A boy weighs about 30 ____. [1]

   (c) 5 eggs weigh 275 _____. [1]
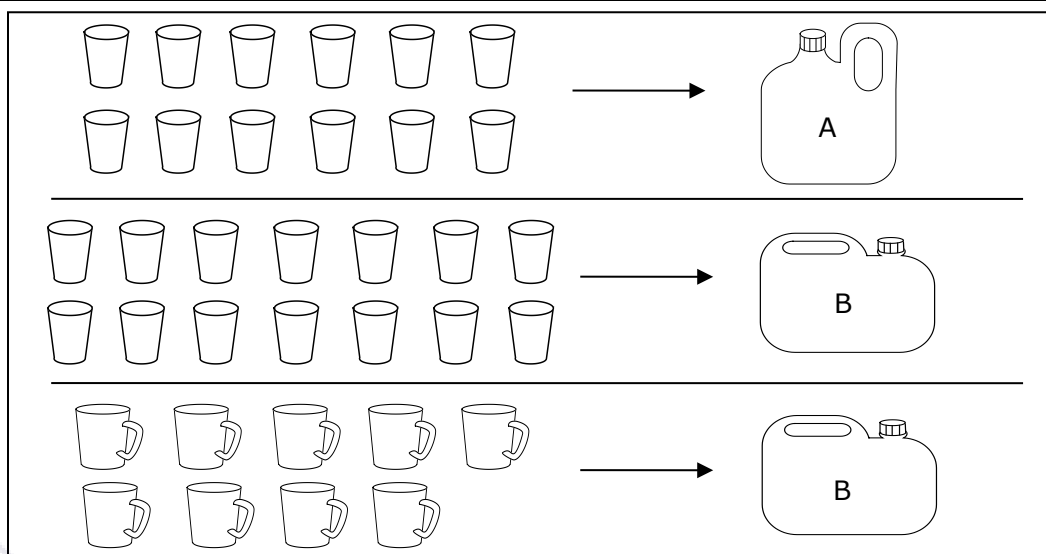
5. Fill in the blanks with lb or oz.

   (a) The apple weighs about 6 _____. [1]

   (b) The watermelon weighs about 5 _____. [1]

   (c) 28 grams weigh about the same as 1 _____. [1]

6.

   This picture shows how many cups or mugs are used to fill up each jug, A and B. Circle the correct answer.

   (a) Which holds more water, Jug A or Jug B?   A   B [2]

   (b) Which can hold more water?

7. Write >, <, or = in each ◯

(a) 2 quarts ◯ 1 gallon   (b) 1 kg ◯ 1 lb   [2]

(c) 4 L ◯ 400 ml   (d) 4 pints ◯ 1 quart   [2]

(e) 1 liter ◯ 1 quart   (f) 3 qt 2 pt ◯ 1 gal   [2]

(g) 2 days ◯ 15 hours   (h) 2 months ◯ 50 days   [2]

(i) 2 h ◯ 210 min   (j) 3 months ◯ 12 weeks   [2]

8. Fill in the blanks.

(a) 3 kg 250 g – 1 kg 600 g = _____ kg _____ g   [1]

(b) 5 h 10 min – 3 h 25 min = _____ h _____ min   [1]

(c) 3 lb – 2 lb 5 oz = _____ lb _____ oz   [1]

(d) 13 gal 1 qt – 2 gal 3 qt = _____ gal _____ qt   [1]

(e) 3 h 20 min + 1 h 45 min = _____ h _____ min   [1]

(f) 4 min 5 s – 1 min 20 s = _____ min _____ s   [1]

9. A tank can hold 8 buckets of water. The capacity of the bucket is 6 liters. What is the capacity of the tank?   [2]

10.	The capacity of a jug is 3 quarts. Kerry needs 6 gallons of juice for a party. How many jugs of juice will she have to make?	[3]

11.	John weighs 64 lb. His brother weighs 16 lb less. Their father's weight is 2 times their total weight. What is their father's weight?	[3]

12.	A melon is 5 times as heavy as an orange. If the orange weighs 450 g, find the difference in weight between the orange and the melon. Give your answer in compound units of kilograms and grams.	[3]

13. John left his house at 11:45 a.m. He took 25 minutes to walk to the store. What time did he arrive at the store? [2]

14. David visited some friends. He left at 10:50 a.m. and came back home three and a half hours later. What time did he get home? [2]

15. A birthday party started at 11:30 a.m.
It ended at 2:15 p.m. How long did the party last? [2]

16. John took 2 h 40 min to paint his room. He finished at 11:30 a.m. What time did he begin painting his room? [2]

17. Fill in the blanks.

    (a)   7 quarters = $_____   (b)   15 nickels = $_____   [2]

18. The sum of 6 one-dollar bills, 5 quarters, 8 dimes, 5 nickels, and 14   [2]
    pennies is $_____

19. Solve using mental math:

    (a) $15.60 + 45¢ = $_____   (b) $15.35 + $35.75 = $_____   [2]

    (c) $100 − $53.80 = $_____   (d) $10.05 − $5.35 = $_____   [2]

20. Solve:

    (a) $3 5 .9 2   (b) $6 0 .0 5   [2]
          + $2 3 .8 6   − $3 3 .1 7

21. Mr. Green bought some vegetables for $8.50 and fish for $12.95.   [3]
    He had $32.30 left. How much money did he have at first?

22.	A 10 oz. carton of strawberries at a farmer's market costs \$2. Hallie wants to buy strawberries only if they are less than \$3 a pound. Should she buy the strawberries? Why or why not?	[3]

23. Find the missing numbers for the top or bottom of the fractions.

(a) $\dfrac{2}{3} = \dfrac{\boxed{}}{12} = \dfrac{4}{\boxed{}}$ 　　　　(b) $\dfrac{6}{18} = \dfrac{\boxed{}}{6} = \dfrac{1}{\boxed{}}$ [2]

24. Circle the larger fraction.

(a) $\dfrac{4}{5}$　$\dfrac{4}{9}$ 　　　　(b) $\dfrac{2}{3}$　$\dfrac{5}{6}$ [2]

25. Express each of the following fractions in its simplest form.

(a) $\dfrac{6}{10}$ 　　　　(b) $\dfrac{3}{9}$ [2]

26. How many halves are there in 5? [1]

27. Find the missing numbers for the top or bottom of the fractions.
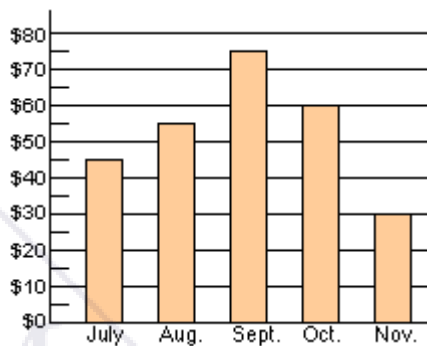
(a) $2 = \dfrac{\boxed{}}{12}$ 　　　　(b) $6 = \dfrac{30}{\boxed{}}$ [2]

28. Melissa ate $\frac{2}{6}$ of a pie. Sara ate $\frac{1}{2}$ of the pie. Who ate a bigger portion of the pie? [2]

29. Alex has 2 quarters, 1 dime, and 2 nickels. What fraction of his coins are quarters? [3]

30. There are 10 apples in a bowl. 2 are red and the rest are green. What fraction of the apples is green? [3]

31. This bar graph shows David's savings for five months.
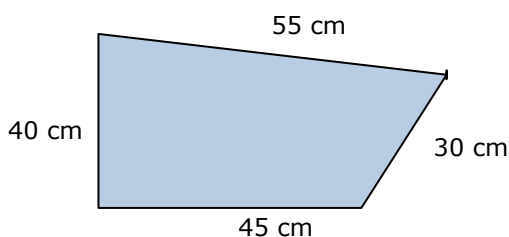

(a) David saved $_____ in August. [1]

(b) He saved the least money in _____. [1]

(c) In _____ he saved twice as much as in November. [1]

(d) He saved $_____ more in October than in July. [1]

32.

55 cm

40 cm

30 cm

45 cm

(a) The perimeter of this figure is _____ m _____ cm   [2]

(b) Is this figure a rhombus?   [1]

(c) The figure has _____ right angles, _____ angles   [2]
greater than a right angle, and _____ angles smaller than a
right angle.

33. The length of a rectangular field is
60 yd and its width is 25 yd. Sam
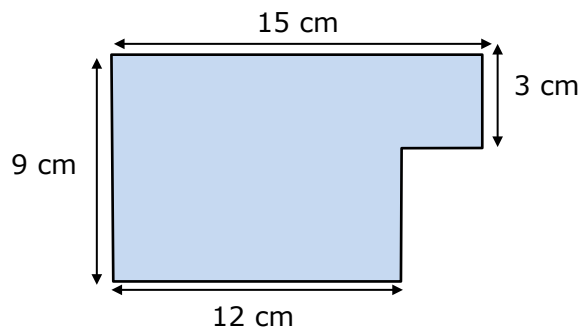ran around the field three times.
How far did he run?   [2]

25 yd

60 yd
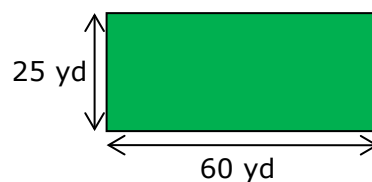
34. The length of a rectangular carpet is 13 m and its width is 7 m.   [2]
What is the area of the rug?

35. In the figure, all lines meet at right angles.

15 cm

3 cm

9 cm

12 cm

(a) Find the area of the figure. [3]

(b) Find the perimeter of the figure. [2]

Answer Key

1. B

2. (a) as heavy as
   (b) lighter than
   (c) heavier than

3. (a) 9
   (b) 500

4. (a) kg
   (b) kg
   (c) g

5. (a) oz
   (b) lb
   (c) oz

6. (a) B
   (b)

7. (a) <   (b) >
   (c) >   (d) >
   (e) >   (f) =
   (g) >   (h) >
   (i) <   (j) >

4. (a) 1 kg 650 g
   (b) 1 h 45 min
   (c) 0 lb 11 oz
   (d) 10 gal 2 qt
   (e) 5 h 5 min
   (f) 2 min 45 s

9. 48 L

10. 8 jugs

11. 224 lb

12. 1 kg 800 g

13. 12:10 p.m.

14. 2:20 p.m.

15. 2 h 45 min

16. 8:50 a.m.

17. (a) $1.75   (b) $0.75

18. $8.44

19. (a) $16.05   (b) $51.10
    (c) $46.20   (d) $4.70

20. (a) $59.78   (b) $26.88

21. $53.75

22. No

23. (a) 8; 6   (b) 2; 3

24. (a) $\frac{4}{5}$ (b) $\frac{5}{6}$

25. (a) $\frac{3}{5}$ (b) $\frac{1}{3}$

26. 10

27. (a) 24   (b) 5

28. Sara

29. $\frac{2}{5}$

30. $\frac{4}{5}$

31. (a) 55   (b) Nov.
    (c) Oct.   (d) 15

32. (a) 1 m 70 cm
    (b) no
    (c) 1, 1, 2

33. 510 yd

34. 91 m^2

35. (a) 117 cm^2 (b) 48 cm