EM 8H Assessment Test

Test 1

Answers

1. a) $\frac{1}{18}$ b) $\frac{21}{20}$ or $2\frac{1}{20}$ c) $\frac{22}{3}$ or $7\frac{1}{3}$
2. $89cm^2$
3. a) e.g. $\frac{4000-500}{100} = 35$ b) e.g. $20^2 \times 100 = 40\ 000$
   c) e.g. $\frac{100million}{10} = \ 10million$
4. a) 1 4 13 40 b) 3 10 31 94 c) $\frac{1}{3}$ 2 7 22
5. a) 1 2 4 5 10 20 b) 1 5 7 35 c) 5
6.

7. The circumference of a circle divided by its diameter.
8. a = $73°$ b= $100°$ c=$28°$
9. a) 25 b) i) $16 \div (9-1) = 2$ ii) $(2+8) \times 10 \div 5$
   or $(2+8) \times (10 \div 5)$
10. a) 14 b) 108
11. a) Trapezium b) $54cm^2$
12. a) $-7 = -8 + 1$ b) $(-3)^2 > 4$ c) $-11 - (-4) = -3 - 4$
13. 110cm
14. $DEC = 123°$
15. 150m
16. a) 21.20cm b) 3.85m c) 0.151kg
17. a) 2 b) $2n$ c) $n + 3$
    d) An equation has an equals sign and an expression does not.
18. a) 0.62 b) 0.625 c) 0.0002
19. a) 6 b) £754.80
20. a)

	Passed	Failed		Total
Boys	150	300		450
Girls	250	119		369
Total	400	419		819

    b) $33.\dot{3}\%$ c) 62.5%
21. 88 cm/minute