

$$1) \text{原式} = 2019 \times 109 - 2019 \times 108 - 108 \\ = 2019 - 108 \\ = 1911$$

$$2) 1200 \div (1+7) = 150 \text{粒}$$

$$3) 24 \div 3 = 8$$

$$4) 2020 = 2^2 \times 5 \times 101, \\ 2 + 5 + 101 = 108$$

$$5) \boxed{160} \xrightarrow[\times 2]{\div 2} \boxed{80} \xrightarrow[\div 2]{-40} \boxed{40} \xrightarrow[\times 2]{\div 2} \boxed{20}$$

$$6) \text{妹} 18 \div (7-1) = 3 \text{歲} \\ \text{姐} 3 \times 7 = 21 \text{歲}$$

$$7) 20 \times 2 = 40 \text{條} \\ 60 - 40 = 20 \text{條} \\ \text{兔} 20 \div (4-2) = 10 \text{隻}$$

$$8) (86 + 84 + 88 + 94 + 98) \div 5 \\ = 450 \div 5 \\ = 90$$

$$9) 10 \times 50 = 500 \text{元} \\ 500 - 364 = 136 \text{元} \\ 2 \text{元}: 136 \div (10-2) = 17 \text{枚} \\ 10 \text{元}: 50 - 17 = 33 \text{枚} \\ 33 - 17 = 16 \text{枚}$$

$$10) (20202020 - 2020) \div 2020 + 1 \\ = 20200000 \div 2020 + 1 \\ = 10000 + 1 \\ = 10001$$

$$11) 144 \div 2 = 72 \text{cm} \\ \text{長}: (72+4) \div 2 = 38 \text{cm} \\ \text{闊}: (72-4) \div 2 = 34 \text{cm} \\ \text{面積}: 34 \times 38 = 1292 \text{cm}^2$$

$$12) 12 \times 3 + 1 = 37 \text{(個)}$$

$$13) 3 \times 5 \times 4 = 60 \text{(個)}$$

$$14) \left. \begin{array}{l} \text{蘋果} \text{---} 4 \\ \text{橘子} \text{---} 3 \\ \text{香蕉} \text{---} 2 \end{array} \right\} 53$$

$$\text{蘋果}: (53 - 2 + 3) \div 6 \\ = 54 \div 6 \\ = 9 \text{公斤}$$

$$\text{橘子}: 9 \times 3 - 3 = 24 \text{公斤}$$

$$15) (202 + 202 - \overline{A0}) \div 7 \dots 0 \\ (404 - \overline{A0}) \div 7 \dots 0 \\ 404 \div 7 \dots 5 \\ \overline{A0} \div 7 \dots 5 \\ \therefore A = 4$$

$$16) 2^1 \div 5 \dots 2 \quad 2020 \div 4 = 505 \\ 2^2 \div 5 \dots 4 \\ 2^3 \div 5 \dots 3 \\ 2^4 \div 5 \dots 1 \\ 2^5 \div 5 \dots 2 \\ \dots \dots \dots \\ \text{所以 } 2^{2020} \div 5 \dots 1$$

$$17) \begin{array}{l|l} \text{每間4人} & \text{多10人} \\ \hline \text{每間6人} & \text{少6人} \end{array}$$

$$(10+6) \div (6-4)$$

$$= 16 \div 2$$

$$= 8 \text{ 間}$$

$$8 \times 4 + 10 = 42 \text{ 人}$$

$$18) (3+2+1) \times 3 + (2+1) \times 4$$

$$= 6 \times 3 + 3 \times 4$$

$$= 30 \text{ 個}$$

19) 蘭斯洛特是真話騎士，有2名隨從。

高文是假話騎士，有1名隨從。

加雷斯是隨意騎士，有3名隨從。

$$20) 72 = 8 \times 9$$

$$\overline{20B} \div 8 \dots 0 \Rightarrow B = 0 \text{ 或 } B = 8$$

當 $B = 0$ 時

$$\overline{A2020B} = \overline{A20200}$$

$$A+2+2 = A+4 \Rightarrow A = 5$$

當 $B = 8$ 時

$$\overline{A2020B} = \overline{A20208}$$

$$A+2+2+8 = A+12 \Rightarrow A = 6$$

所以 A 的最小值為 5。