Paret: 1

②
$$(185)_{10} \rightarrow (?)_{2}$$

- 3
- 6 27; ex. 2° = 4; 24 = 16; 23 = 8; 2' = 2

© total letters
$$-5$$
 (119 + 52) $\times 2 = 342$

$$2^{8} = 256 - 45 + 460 = 342$$

$$2^{9} = 512$$
We can use 9 bits.

(4) a) red:
$$(240)_{10} \rightarrow (?)_{16}$$
 $246 / 16 = 15 R0 \uparrow (F0)_{16}$
 $15 / 16 = 0 R15 \uparrow (F0)_{16}$

green: $(121)_{10} \rightarrow (?)_{16}$
 $|2| / 16 = 7 R0 \uparrow (70)_{16}$
 $|3| / 16 = 0 R7 \uparrow (70)_{16}$

blue: $(46)_{10} \rightarrow (?)_{16}$
 $|46 / 16 = 2 R | 19 \uparrow (2E)_{16}$
 $|2 / 16 = 0 R | 2 | (2E)_{16}$

b)
$$F \rightarrow 1111$$
 $d \rightarrow 0010$
 $7 \rightarrow 0111$
 $0 \rightarrow 1001$

(h) a)
$$3840 \times 2160 = (8,204,400)$$

- (b) 109,065,600 = 8,204.400 × 24
- c) 24,883,200 = 199,065,600/8
- d) 20 mins = (?) seconds $20 \times 60 = 1200$ seconds

total frames = 1200 x 75 = 00,000 total bytes in 4K for 1 image,

24,883,200

total bytes in 20 mins 4K video = 24.883,200 x 90,000 = 2,23 0,48 9,000,000 bytes.