

1 Write the opposites of these adjectives.

- 1 old new 5 fast slow
2 ugly beautiful 6 wrong right
3 small big 7 bad good
4 difficult easy 8 cheap expensive

7

2 Choose the correct words.

- 1 A Have you got a laptop?
B Yes, I am/ have.
2 A Have/Has your father got a car?
B No, but he's got a bike!
3 A What car have/has your parents got?
B It's a Ford, I think.
4 A Have/Has you got the time, please?
B Yes, it's about 3.30.
5 A Those shoes are beautiful!
B Yes, but they're/are £200!
6 A Has Karen got a brother?
B No, she haven't/hasn't.
7 A Whose mobile is/has that?
B I think it's Ian's.

6

3 Look at the family tree. Complete the sentences.



- 1 Harry is Gloria and Bill's brother.
2 Anna is Harry's wife.
3 Bill is Robert's brother-in-law.
4 Rosa and Philip are Lucy's grandparents.
5 David is David and Lucy's cousin.
6 Ted is Bill's husband.
7 Harry is Robert's brother-in-law.
8 Gloria is David's aunt.
9 Bill is Rosa and Philip's son.

8

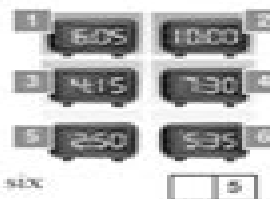
4 Make sentences and questions with these words.

- 1 Ben's / table / on / MP3 player / is / coffee / the .
Ben's MP3 player is on the coffee table.
2 very / got / expensive / a / 've / I / camera .
I've got a very expensive camera.
3 new / Diana / a / got / bag / Has ?
Has Diana got a new bag?
4 class / past / at / ten / My / twenty / is .
My class is at ten past twenty.
5 concert / is / time / the / What ?
What time is the concert?
6 blue / is / dress / much / How / that ?
How much is that blue dress?
7 Lisa's / the / books / by / are / computer .
The books are by Lisa's computer.
8 car / your / Where / mother's / 's ?
Where's your mother's car?
9 he / suitcase / 's / his / What / in / got ?
What's in his suitcase?

16

5 Complete the times.

- 1 five past six
2 ten past six
3 ten past seven
4 ten past seven
5 ten past three
6 ten past six



5

6 Fill in the gaps in these conversations.

- 1 A What's your name?
B Marta.
2 A Where are your DVDs?
B They're on the floor.
3 A What time is it?
B It's five past ten.
4 A How much is that DVD?
B £14.99.
5 A How many children have you got?
B Three.
6 A Who's Max?
B He's my cousin.
7 A What do you do?
B I'm a builder.
8 A When is your English class?
B It's from 3.00 to 4.30 p.m.
9 A Whose bag is this?
B It's Kate's.

8

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paper proposes a way to govern the rate and route control of a dc motor with the help of a 4 quadrant dc dc chopper the

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the four quadrant chopper block represents a four quadrant controlled chopper for converting a fixed dc input to a variable dc output the block contains two bridge arms each bridge arm each has two switching devices options for the type of

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3 four quadrant operation of dc motor four quadrant operation or mode of any dc motor means that machine operate in four quadrants they are forward braking mode forward motoring mode reverse braking or stop mode and reverse motoring mode a motor operates in two modes motoring and braking a motor drive capable of

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this paper gives a control for three phase brushless dc bldc motor in all four quadrant operation the control system in this paper is capable to detect and identify the rotor position by sensor signal 1 in this paper behaviour of bldc motor is studied in all four quadrant operations through simulation model

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aug 8 2020 1 answer sorted by 1 you can think of the first quadrant operation as being a buck converter down from the supply to the motor you can think of the second quadrant as being a boost converter from the motor s generated low voltage up to the supply voltage

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put simply the four quadrants that the controller can work in are 1 motor going clockwise controller applying clockwise drive 2 motor going anti clockwise controller applying anti clockwise drive 3 motor going clockwise controller applying anti clockwise drive 4 motor going anti clockwise controller applying clockwise drive

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four quadrant operation of dc motor means that the machine operates in four quadrants they are forward braking forward motoring reverse motoring and reverse braking a motor operates in two modes motoring and braking

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1 to observe the four quadrant operation of a dc motor 2 to control a motor under torque control 3 to couple the speed control motor and torque controlled motor and observe the effect of a stepped torque 6 2 four quadrant operation of a dc motor the four quadrant operation is performed by giving an alternating reference speed command to

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aug 16 2021 the four quadrant operation of the motor can be described as follows quadrant i in the first quadrant the developed power by the motor is positive thus the motor operates in motoring mode and converts electrical energy into mechanical energy therefore the operation of the motor in first quadrant is called forward motoring quadrant ii

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the control of bldc motor in four quadrants is very crucial in this paper bldc motor is controlled in all the four quadrants without any wastage of power during regenerative braking period power generated is being stored in the chargeable battery

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